PROVISIONAL ANSWER KEY

Question Paper Code:101/2017/OLCategory Code:492/2016Exam:Manager NCAMedium of Question:EnglishDate of Test01-01-2018

Department Kerala Forest Development Corporation Ltd

Alphacode A

Question1:-Family planning has been initiated in India on a national scale in

A:-1952 B:-1954 C:-1956

D:-1955

Correct Answer:- Option-A

Question2:-Who acts as the Chairman of Rajyasabha?

A:-President

B:-Prime Minister

C:-Finance Minister

D:-Vice President`

Correct Answer:- Option-D

Question3:-The first bank to introduce ATM in the world

A:-SBI

B:-Lloyds Bank

C:-Barclays Bank

D:-HSBC Bank

Correct Answer:- Option-C

Question4:-The 200 metres Womens Champion in the World Athletic Championship 2017 is

A:-Dafne Shippers

B:-Mary Josey

C:-Tory Bovi

D:-Elena Thompson

Correct Answer:- Option-A

Question5:-The famous Dilwara Temples is situated in

A:-Odisha

B:-Maharashtra

C:-Rajasthan

D:-Punjab

Correct Answer:- Option-C

Question6:-The largest river island in India is

A:-Majuli

B:-Elephanta

C:-DIU

D:-Barren

Correct Answer:- Option-A

Question7:-Which of the following is the oldest mountain range of India?

A:-Himalaya

B:-Aravalli

C:-Vindhya

D:-Satpura

Correct Answer:- Option-B

Question8:-First secretary of N.S.S. was

A:-K. Kelappan

B:-Mannathu Padmanabhan

C:-Chattampi Swamikal

D:-P. K. Narayana Panikkar

Correct Answer:- Option-B

Question9:-Who won the Nobel prize for literature in 2016?

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A:-Eric Clapton
    B:-Juan Manuel Santos
    C:-Gabriel Garcia Marquez
    D:-Bob Dylan
    Correct Answer:- Option-D
Question10:-The period of Rolling plan in India was
    A:-1966-69
    B:-1990-92
    C:-1978-80
    D:-2000-2005
    Correct Answer:- Option-C
Question11:-Largest city in India in terms of population as per 2011 census
    A:-Mumbai
    B:-Delhi
    C:-Bangalore
    D:-Hyderabad
    Correct Answer:- Option-A
Question12:-National award for best actress in 2017 was won by
    A:-Sobhana
    B:-Surabhi Lakshmi
    C:-Bhavana
    D:-Parvathi
    Correct Answer:- Option-B
Question13:-Which of the following News paper was published from Thrissur as a month piece of Congress Socialist Party?
    A:-Swadeshabhimani
    B:-Mathrubhumi
    C:-Prabhatam
    D:-Kerala Kaumudi
    Correct Answer:- Option-C
Question14:-Which of the following is an east flowing river?
    A:-Periyar
    B:-Pamba
    C:-Pambar
    D:-Chaliyar
    Correct Answer:- Option-C
Question15:-The founder of All Travancore Muslim Mahajanasabha was
    A:-Muhammad Abdurahiman
    B:-E. Moithu Moulavi
    C:-Pookoya Thangal
    D:-Vakkom Abdul Khader Moulavi
    Correct Answer:- Option-D
Question16:-The hills that lies at the junction of Eastern and Western and Western ghats
    A:-Nilgiri hills
    B:-Anamudi
    C:-Munnar hills
    D:-Chin hills
    Correct Answer: - Option-A
Question17:-The highest temperature recorded sofar in India is
    A:-55°C
    B:-51°C
    C:-45°C
    D:-48°C
    Correct Answer:- Option-B
Question18:-Wagon Tragedy in connection with Malabar Rebellion took place on
    A:-01 Dec. 1921
    B:-15 Nov. 1921
    C:-10 Nov. 1921
    D:-21 Nov. 1921
    Correct Answer:- Option-C
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Question19:-Vaikkom Satyagraha ended in the year
    A:-1921
     B:-1925
     C:-1926
     D:-1924
     Correct Answer:- Option-B
Question20:-The founder of Cheramar Sangham was
     A:-K. P. Karuppan
     B:-Krishnadiyasan
     C:-Kumaragurudeva
     D:-Pambadi John Joseph
     Correct Answer:- Option-D
Question21:-Kanchas and orans are local names for
     A:-Tree and grassland management systems in arid/semi-arid parts of India
     B:-The Kerala homegardens
     C:-Shifting cultivation in Arunachal pradesh
     D:-Grazing systems in central and western Himalayas
     Correct Answer:- Option-A
Question22:-Wheeler's pentaprism is used to measure
     A:-Inclination
     B:-Spread
     C:-Branch number
     D:-Diameter
     Correct Answer:- Option-D
Question23:-A mineral deficiency is likely to affect older leaves more than younger leaves if
     A:-the mineral is very mobile within the plant
     B:-the mineral is a micronutrient
     C:-the mineral is required for chlorophyll synthesis
     D:-the mineral is a macronutrient
     Correct Answer:- Option-A
Question24:-Holridge's climatic models are not based on
     A:-Biotemperature
     B:-Average annual precipitation
     C:-Potential evapotranspiration
     D:-Solar radiation
     Correct Answer:- Option-D
Question25:-National Agroforestry Policy was implemented in the year
    A:-2014
     B:-2012
     C:-2010
     D:-2011
     Correct Answer: - Option-A
Question26:-The reaction wood in soft woods is termed as
     A:-Compression wood
     B:-Tension wood
     C:-Juvenile wood
     D:-Ring porous wood
     Correct Answer: - Option-A
Question27:-If the objective of coppice crop is fuel production, then ______ is required
     A:-Crown thinning
     B:-Free thinning
     C:-Mechanical thinning
     D:-No thinning
     Correct Answer:- Option-D
Question28:-The first forest policy of Indian Republic was brought out in the year
     A:-1894
     B:-1952
     C:-1980
     D:-1988
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Correct Answer:- Option-B Question29:-A plantation of genetically superior trees isolated to reduce cross pollination by inferior ones and managed intensively for seed production is A:-Seed stand B:-Seed orchard C:-Provenance D:-Plus stand Correct Answer:- Option-B Question 30:-Vigour test method in which the ability of germinants to overcome physical stress is evaluated by germinating the seeds under a layer of crushed brick stone gravel B:-Grave yard C:-Hiltner D:-Tetrazolium Correct Answer:- Option-C Question31:-This organism is commonly known as the teak defoliator A:-Eutectona macheralis B:-Hyblaea puera C:-Sahyadrussus malabaricus D:-Hypsipyla grandella Correct Answer:- Option-B Question 32:- The current annual increment for Ailanthus at 5 years age is 5 cu. ft and 10 years is 2.5 cu. ft. The MAI at 10 years of tree age is 3.5 cu. ft. What is the total tree volume at `10^(th)` year? A:-10 cu ft B:-25 cu ft C:-35 cu ft D:-50 cu ft Correct Answer:- Option-C Question33:-Internal rate of return is the A:-Interest rate B:-Discount rate C:-Bank rate D:-Opportunity cost Correct Answer:- Option-B Question34:-Usually ______ seed bearers per hectare are ratained even after all the shelterwood is removed in the case of chir in North India. A:-12-15 B:-50-60 C:-2-3 D:-150-200 Correct Answer: - Option-A Question35:-The nursery operation to condition the nursery stock by loosening the contact between soil and root of the seedings in nursery bed is called A:-Box pruning B:-Lateral pruning C:-Under cutting D:-Wrenching Correct Answer:- Option-B Question36:-Shigakai pods are obtained from A:-Acacia concinna B:-Acacia arabica C:-Butea monosperma D:-Caesalpinia sapan Correct Answer: - Option-A Question37:-Pitch of a saw is A:-Length of teeth B:-Thickness of teeth C:-Number of teeth

D:-Angle between teeth Correct Answer:- Option-D

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woods cannot be seasoned very fast without creating defects particularly cracking and splitting.
Question38:-
     A:-Highly refractory
     B:-Moderately refractory
     C:-Non-refractory
    D:-Slightly refractory
     Correct Answer:- Option-A
Question39:-Which among the following is a strong coppicer?
     A:-Casuarina equisetifolia
     B:-Cedrus deodara
     C:-Madhuca latifolia
     D:-Tectona grandis
     Correct Answer:- Option-D
Question40:-Central Agroforestry Research Institute is located at
     A:-Dehradun
     B:-Ihansi
     C:-Jodhpur
     D:-Nigeria
     Correct Answer:- Option-B
Question41:-Agroforestry was recognized as a GHG mitigation strategy as per
     A:-`4^(th)` assessment report of IPCC, 2007
     B:-`3^(rd)` assessment report of IPCC, 2001
     C:-Bali action plan
     D:-Copenhagen summit 2009
     Correct Answer:- Option-B
Question42:-A very commonly used surface sterilant for explants in plant tissue culture
    A:-NaCl
     B:-`KMNO (4)`
     C:-`CaCl (2)`
     D:-`HgCl (2)`
     Correct Answer:- Option-D
Question43:-The geo-stationery satellite is located at a height of
     A:-920 km from earth
     B:-3600 km from earth
     C:-36000 km from earth
     D:-1100 km from earth
     Correct Answer:- Option-C
Question44:-The approximate cubic content of a standing teak tree with GBH 2.0 m and commercial bole height 20 m is
    A:-4.0 \m^{(3)}
     B:-1.5 m^{(3)}
     C:-250 cu ft
     D:-2.5 m^{(3)}
    Correct Answer:- Option-A
Question 45:- The number of seedlings required for planting in 10 ha area at a spacing of 2 m between plants and 4 m
between rows
    A:-10,000
     B:-12,500
     C:-15,000
     D:-20,000
     Correct Answer:- Option-B
Question46:-UTM is
     A:-Universal Timber Manual
     B:-Universal Testing Machine
     C:-Universal Timber Methodology
     D:-Uniform Testing Machinery
     Correct Answer:- Option-B
Question47:-The leaves of this tree is used for making beedi
     A:-Nicotiana tabaccum
     B:-Diospyros ebenum
     C:-Diospyros melanoxylon
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Correct Answer:- Option-C Question48:-The growth regulator required to initiate seed germination is A:-Gibberellic acid B:-Absicic acid C:-Cytokinnin D:-Ethral Correct Answer: - Option-A Question49:-The biochemical test employed to assess seed viability is A:-Formaldehyde test B:-Tetrazolium test C:-Ferric chloride test D:-Levene's test Correct Answer:- Option-B Question50:-Length of the lowest section is ______ in stem analysis. A:-3.0 m B:-1.37 m C:-2.74 m D:-5.0 m Correct Answer:- Option-C Question51:-The credits obtained through Joint Implementation is known as A:-Removal Units **B:-Emission Reduction Units** C:-Certified Emission Reduction D:-Kyoto Protocol Units Correct Answer:- Option-B Question52:-The land use factor (L) in shifting cultivation where permanent cultivation is reached (zero fallow phase) through improved fallow management will be A:-> 10 B:=1C:-< 1 D:=2Correct Answer:- Option-B Question53:-The type of germination in which the cotyledons are forced above the ground epicotyls A:-Hypogeal B:-Epgigeal C:-Open D:-Closed Correct Answer:- Option-B Question54:-A silvicultural system in which regeneration fellings are carried out in narrow strips extending in east-west direction and advancing from north to south is A:-Bavarian Femelschag B:-Two storied high forest system C:-Wagner's Blendersaumschlag D:-Dauerwald Correct Answer:- Option-C Question55:-The credits obtained through Joint Implementation is known as A:-Removal Units **B:-Certified Emission Reduction** C:-Emission Reduction Units D:-Kyoto Protocol Units Correct Answer:- Option-C Question56:-In a normal increment curve A:-Initially CAI curve is at a higher level compared to MAI curve B:-Initially MAI curve is at higher level compared to CAI curve C:-Both are parallel through out the growing period D:-Both are highly erratic through out Correct Answer: - Option-A

D:-Diospyros affinis

Question57:-The inner seed coat is known as

	A:-Testa
	B:-Tegmen
	C:-Tertiary integument
	D:-Raphe
	Correct Answer:- Option-B
Que	stion58:-The seed that can be stored at low moisture content and temperature
	A:-Orthodox seed
	B:-Intermediate seed
	C:-Recalcitrant seed
	D:-Registered seed
	Correct Answer:- Option-A
	stion59:-The conservation Reserve is declared using the provisions under the section of the Wildlife (Protection 1972.
	A:-36a
	B:-36b
	C:-36c
	D:-36d
	Correct Answer:- Option-A
	stion60:-A method of thinning in which attention is concentrated on evenly spaced selected stems (called elite stems) ch are retained until maturity.
	A:-Crown thinning
	B:-Free thinning
	C:-Mechanical thinning
	D:-High thinning
	Correct Answer:- Option-B
Que	stion61:-Quantitative traits exhibits continuous variation as they are controlled by
	A:-Single gene
	B:-Oligogenes
	C:-Polygenes
	D:-Special genes
	Correct Answer:- Option-C
Que	stion62:-A felling made with a view to assist regeneration under the shelter wood system is
	A:-Final felling
	B:-Secondary felling
	C:-Clear felling
	D:-Seeding felling
	Correct Answer:- Option-D
Que	stion63:-Plants are more readily manipulated by genetic engineering than are animals because
	A:-Plant genes do not contain introns
	B:-More vectors are available for transferring recombinant DNA into plant cells
	C:-A somatic plant cell can often give rise to a complete plant
	D:-Plant cells have larger nuclei
	Correct Answer:- Option-C
Que	stion64:-LULUCF is a strategy under the
	A:-Bhopal-India Process
	B:-Kyoto Treaty
	C:-Montreal Process
	D:-WTO Regime
_	Correct Answer:- Option-B
Que	stion65:-The most striking advantage of laser hypsometers upon conventional hypsometers is
	A:-The strong laser beam help to clearly identify the tree tip
	B:-They provide the results in digital units and hence accurate
	C:-They don't require horizontal distance measurement
	D:-They don't require slopping distance measurement
_	Correct Answer:- Option-C
Que	estion66:-ASCU is a
	A:-Fungicide
	R:-Weedicide

C:-Wood Preservative

D:-Wood paint Correct Answer:- Option-C Question67:-Which is not true about tyloses? A:-Enhances impregnation B:-Often found in cell lumen C:-Increase overall density D:-Impart protection Correct Answer: - Option-A Question68:-An agroforestry tree species that strongly influenced the livelihood security of people in the western arid zones of India A:-Faidherbia albida B:-Acacia tortilis C:-Prosopis Cineraria D:-Acacia nilotica Correct Answer:- Option-C Question69:-Present tropospheric `CO (2)` concentrations is about ppm. A:-365 B:-288 C:-105 D:-300 Correct Answer: - Option-A Question 70: The measure of the relative productive capacity of a site with respect to a particular species is known as A:-Site index **B:-Species productivity** C:-Site quality D:-Site productivity Correct Answer:- Option-C Question71:-The external factor that affects seed longevity includes A:-Wind velocity B:-Soil moisture C:-Relative humidity D:-Seed size Correct Answer:- Option-C Question72:-The sum (by numbers or volume) of all the trees growing in a forest or a specified part of it is known as A:-Growing stock B:-Normal growing stock C:-Forest capital D:-Basal area Correct Answer: - Option-A Question73:-Which of these trees is propagated by branch cuttings? A:-Teak B:-Ailanthus C:-Poplar D:-Mahua Correct Answer:- Option-C Question74:-In forestry Huber's formula is used to find out A:-Crown shape B:-Crown spread C:-Volume D:-Height Correct Answer:- Option-C Question 75:-Cutting the stem of a tree in order to obtain a flush of shoots, usually above the height to which the browsing animals can reach is known as A:-Pruning B:-Browsing C:-Pollarding D:-Gridling Correct Answer:- Option-C

Question76:-Identify a most suitable grass species for soil conservation in the Western Ghats region

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A:-Eulaliopsis binata
     B:-Chloris gayana
     C:-Vetiveria zizanoides
     D:-Brachiaria ruziziensis
     Correct Answer:- Option-C
Question77:-The interval between seeding felling and final felling in a particular area is
     A:-regeneration interval
     B:-secondary felling
     C:-thinning cycle
     D:-felling interval
     Correct Answer:- Option-A
Question78:-Full cell or Bethel Process is a type of
     A:-Wood preservation technique
     B:-Wood seasoning method
     C:-Test of mechanical properties
     D:-Test to find out the luminescence of wood
     Correct Answer: - Option-A
Question79:-Grevillea robusta belongs to the family
     A:-Verbenaceae
     B:-Meliaceae
     C:-Bombacaceae
     D:-Proteaceae
     Correct Answer:- Option-D
Question80:-Agar oil is extracted from
     A:-Santalum album
     B:-Aquilaria agallocha
     C:-Acacia arabica
     D:-Artocarpus hirsuta
     Correct Answer:- Option-B
Question81:-During the 1980's global deforestation accounted for about ______ of C emission.
     A:-5.5 Pg C per year
     B:-7.4 Pg C per year
     C:-26 Pg C per year
     D:-1.6 Pg C per year
     Correct Answer:- Option-D
Question82:-What is advance thinning? A thinning operation
     A:-in which attention is concentrated on evenly spaced selected stems
     B:-that removes inferior individuals
     C:-that removes trees n alternate rows following some rule of thumb
     D:-done in a regular crop in anticipation of suppression
     Correct Answer:- Option-D
Question83:-Climber yielding strong fibre is
    A:-Hardwickia binata
     B:-Bauhenia vahlii
     C:-Quisqualis indica
     D:-Ficus bengalensis
     Correct Answer:- Option-B
Question84:-Advance thinning is a thinning operation
     A:-in which attention is concentrated on evenly spaced selected stems
     B:-that removes inferior individuals
     C:-that removes trees and alternate rows following some rule of thumb
     D:-done in a regular crop in anticipation of suppression
     Correct Answer:- Option-D
Ouestion85:-Water blister of teak is a
     A:-Physiological disorder
     B:-Mycoplasma disease
     C:-Growth pattern influenced by climate
     D:-Viral disease
     Correct Answer: - Option-A
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Question86:-The potential limitation to intensive agroforestry in the humid tropics is A:-PAR availability B:-Moisture availability C:-Heavy nutrient demand D:-Crop density Correct Answer:- Option-A Question87:-Luecaena psyllid is A:-Hoplocerambyx spinicornis B:-Eligma narcissus C:-Hyblaea peura D:-Hipsipyla robusta Correct Answer:- Option-D Question88:is a tree species extensively used for border planting in the coastal tracts of central Kerala. A:-Ailanthus triphysa B:-Vatica chinensis C:-Thespesia populnea D:-Casuarina equisetifolia Correct Answer:- Option-B Question89:-Pink disease in Eucalyptus is caused by A:-Corticium salmonicolor B:-Rhizopogon nigrescens C:-Rhizotonia solani D:-Phytophthora palmivora Correct Answer: - Option-A Question90:-Primary classification of silvicultural system is based on A:-Mode of regeneration B:-Pattern of felling C:-Locality factors D:-Species composition Correct Answer:- Option-A Question91:-Sal borer is A:-Hoplocerambyx spinicornis B:-Eligma narcissus C:-Hyblaea peura D:-Hipsipyla robusta Correct Answer: - Option-A Question92:-The number of 25-cm (quadratic mean diameter at breast height) trees per hectare in a stand is A:-Importance value index B:-Reineke's stand density index C:-Crown competition factor D:-Wilson's percent of height Correct Answer:- Option-B Question 93: The forgone value of the next best alternative that is not chosen or the true sacrifice incurred by the choice of a given action A:-Real rate of interest **B:-Opportunity cost** C:-Shadow price D:-Net present value Correct Answer:- Option-B Question94:-Standard basal media formulations commonly used in Plant Tissue Culture A:-Murashige and Skoog B:-Mannitol salt agar C:-Potato dextrose agar D:-Agarose gel media Correct Answer:- Option-A Question95:-Species highly suitable for afforestation in laterite soil is A:-Acacia auriculiformis B:-Tamarix articulata

C:-Acacia nilotica

D:-Populus deltoids

Correct Answer: - Option-A

Question96:-What is podzolisation?

A:-A soil forming process by which igneous rocks, usually of basic composition weather in tropica climates

B:-A soil forming process of cool, humid climates in which leaching by organic acids remove bases and translocate sesquioxides from A horizon

C:-Disintegration of rocks chemically under the influence of water containing dissolved `CO_(2)`

D:-Physical disintegration of rocks resulting in exposure of internal surfaces

Correct Answer:- Option-B

Question97:-Nitrogen fixing ability of Casuarina is attributable to

A:-Azotobacter

B:-Frankia

C:-Rhizobium

D:-Azospirillum

Correct Answer:- Option-B

Question98:-Marginal cost is

A:-Cost of total output produced

B:-Cost of acquiring an additional unit of input

C:-Cost of producing an additional unit of output

D:-Average cost of output

Correct Answer:- Option-C

Question99:-Free-Air `CO_(2)` Enrichment (FACE) offers a mechanism for

A:-regulating C emissions under the Kyoto Protocol

B:-protecting global biodiversity under CBD

C:-evaluating the effects of enriched atmospheric `CO (2)` on ecosystem processes

D:-predicting climate change with coupled atmosphere-ocean general circulation models (A-O GCM)

Correct Answer:- Option-C

Question100:-The Forest Conservation Act was constituted in the year

A:-1970

B:-1975

C:-1980

D:-1985

Correct Answer:- Option-C