

PROVISIONAL ANSWER KEY

Question Paper Code:	48/2019/OL
Category Code:	012/2018
Exam:	Forest Ranger(Range Forest Officer) NCA
Medium of Question:	English
Date of Test	03-10-2019
Department	Forest
Alphacode	A

Question1:-Pure forests and mixed forests are classification of forests based on

- A:-Growing stock
- B:-Species composition
- C:-Age
- D:-Objects of management

Correct Answer:- Option-B

Question2:-Poly climax theory of succession was put forwarded by

- A:-Tansley
- B:-Clements
- C:-Aubreville
- D:-Whittaker

Correct Answer:- Option-A

Question3:-Two or more related species those inhabiting in completely different geographical distribution

- A:-Polytypic Species
- B:-Insular Species
- C:-Continental Species
- D:-Allopatric Species

Correct Answer:- Option-D

Question4:-The branch of ecology deals with the study of genetic variation within a species compared to its population distribution in a particular environment is called

- A:-Ecophysiology
- B:-Ecogeography
- C:-Demecology
- D:-Genecology

Correct Answer:- Option-D

Question5:-..... is an annual flowering bamboo

- A:-Thyrsostachys oliveri
- B:-Bambusa lineata
- C:-Dendrocalamus stocksii
- D:-Bambusa balcooa

Correct Answer:- Option-B

Question6:-National Agro forestry Policy was adopted in the year

- A:-2012
- B:-2014
- C:-2016
- D:-2018

Correct Answer:- Option-B

Question7:-..... is a tree species suitable for planting in drought prone area

- A:-Syzygium cuminii
- B:-Tectona grandis
- C:-Madhuca indica
- D:-Toona ciliata

Correct Answer:- Option-A

Question8:-Rotation which yields maximum material of specified size for a specific use is

- A:-Silvicultural Rotation
- B:-Physical Rotation
- C:-Technical Rotation
- D:-Rotation of maximum volume production

Correct Answer:- Option-C

Question9:-Cutting of branches from the bole of trees for improvement of timber quality

- A:-Pruning
 - B:-Lopping
 - C:-Improvement Cutting
 - D:-Liberation Cutting
- Correct Answer:- Option-A

Question10:-..... helps to separate seeds according to the length

- A:-Inclined Draper
 - B:-Spiral Separator
 - C:-Magnetic Separator
 - D:-Intended Cylinder
- Correct Answer:- Option-D

Question11:-..... kind of soil preparation is suitable for planting in low rainfall and deep soil conditions

- A:-Large ridge-ditch
 - B:-Small ridge-ditch
 - C:-Sloped ridge-ditch
 - D:-Double slanting ridge-ditch
- Correct Answer:- Option-A

Question12:-..... is known as Bengal Kino

- A:-Astragales gumnifer
 - B:-Pterocarpus marsupium
 - C:-Butea monosperma
 - D:-Lennea coromandelica
- Correct Answer:- Option-C

Question13:-The tree which is not preferred as host tree for lac cultivation

- A:-Zizyphus Mauritiana
 - B:-Trema Orientalis
 - C:-Schleichera Oleosa
 - D:-Butea Monosperma
- Correct Answer:- Option-B

Question14:-..... is the relation of the increment during a given year to the volume at the beginning of the year

- A:-Current Annual Increment
 - B:-Mean Annual Increment
 - C:-Current Increment Percent
 - D:-Mean Annual Increment Percent
- Correct Answer:- Option-C

Question15:-Find the WRONG statement

- A:-During the initial stages, MAI keeps below the CAI
 - B:-The CAI attains maximum before the MAI
 - C:-When the MAI reaches maximum and begins to decline, CAI is still raising
 - D:-CAI and MAI coincides twice in the life of a crop
- Correct Answer:- Option-C

Question16:-Biolley's Check Method is a method of yield calculation based on

- A:-Area only
 - B:-Volume only
 - C:-Area and Volume
 - D:-Increment
- Correct Answer:- Option-D

Question17:-UN Convention on Biological Diversity was held in the year

- A:-1992
 - B:-1994
 - C:-1996
 - D:-1998
- Correct Answer:- Option-A

Question18:-The headquarters of National Biodiversity Authority is at

- A:-Hyderabad
- B:-Bangalore
- C:-New Delhi
- D:-Chennai

Correct Answer:- Option-D

Question19:-According to the Metzger's theory, the diameter at breast height increases to the 3rd power proportionately with

- A:-Decrease in height of the tree
- B:-Decrease in crown area of the tree
- C:-Increase in wind pressure on the crown
- D:-All of the above

Correct Answer:- Option-C

Question20:-Smalian's formula is used to find out the volume of log when the log is in the form of

- A:-Frustrum of Cylinder
- B:-Frustrum of Paraboloid
- C:-Frustrum of Neiloid
- D:-Frustrum of Cone

Correct Answer:- Option-B

Question21:-The quarter girth volume of a log having 3 m length and 160 cm girth is

- A:-1.2 cubic metre
- B:-1.92 cubic metre
- C:-0.72 cubic metre
- D:-0.48 cubic metre

Correct Answer:- Option-D

Question22:-Indian Flying Fox belongs to of Wildlife Protection Act 1972` `

- A:-Schedule II
- B:-Schedule III
- C:-Schedule IV` `
- D:-Schedule V

Correct Answer:- Option-C

Question23:-The ability of a digital sensor to distinguish between grey-scale values while acquiring an image is called

- A:-Spatial Resolution
- B:-Spectral Resolution
- C:-Temporal Resolution
- D:-Radiometric Resolution

Correct Answer:- Option-D

Question24:-The horizon is always visible in the

- A:-High oblique aerial photograph
- B:-Low oblique aerial photograph
- C:-Vertical aerial photograph
- D:-Both A and B

Correct Answer:- Option-A

Question25:-Geostationary satellites are located at an altitude of approximately

- A:-22,300 km
- B:-36,000 km
- C:-9000 km
- D:-900 km

Correct Answer:- Option-B

Question26:-The range of value of Normalized Difference Vegetation Index is

- A:-1 to +1
- B:-0 to 1
- C:-3 to +3
- D:-0 to 3

Correct Answer:- Option-A

Question27:-Formation of a permanent sag in the wooden book shelf due to the heavy weight of books is due to behaviour of wood

- A:-Kink
- B:-Twist
- C:-Torsion
- D:-Creep

Correct Answer:- Option-D

Question28:-Stem Canker in Eucalyptus tereticornis is caused by

- A:-Chrysosporthe cubensis

B:-Cylindrocladium quinqueseptatum

C:-Cylindrocarpon lucidum

D:-Phaeoseptoria eucalypti

Correct Answer:- Option-A

Question29:-The concept of progressive yield was put forward by

A:-Howard

B:-Hartig

C:-Hiley

D:-Heyer

Correct Answer:- Option-B

Question30:-Vanamahotsava was started in the year

A:-1950

B:-1960

C:-1953

D:-1968

Correct Answer:- Option-A

Question31:-The fire that burns mainly the herbaceous growth including grasses, shrubs and saplings even up to pole stage is called

A:-Surface Fire

B:-Creeping Fire

C:-Ground Fire

D:-Underground Fire

Correct Answer:- Option-C

Question32:-Salai gum is extracted from

A:-Boswellia serrata

B:-Bauhinia retusa

C:-Bixa orellana

D:-Butea monosperma

Correct Answer:- Option-A

Question33:-Keora oil is a

A:-Wood Oil

B:-Root Oil

C:-Leaf Oil

D:-Flower Oil

Correct Answer:- Option-D

Question34:-IUFRO Headquarters is located at

A:-Nairobi

B:-Switzerland

C:-Vienna

D:-Bangor

Correct Answer:- Option-C

Question35:-'Hariyali Guidelines' is related to

A:-Agroforestry development

B:-Village Forest development

C:-Riparian development

D:-Watershed development

Correct Answer:- Option-D

Question36:-The quarter girth volume is % lesser than the true volume of the log

A:-75.8%

B:-78.5%

C:-21.5%

D:-24.2%

Correct Answer:- Option-C

Question37:-Pigmy hogs are seen at

A:-Manas

B:-Chandoli

C:-Kanha

D:-Nanda Devi

Correct Answer:- Option-A

Question38:-The distance between the successive left and right hind footprints of tiger is called

- A:-Stride
- B:-Step
- C:-Stradle
- D:-Gait

Correct Answer:- Option-B

Question39:-..... uses an infrared beam across a path and triggers the camera when the beam is cut by an animal

- A:-Passive Detection Camera Traps
- B:-Active Detection Camera Traps
- C:-PIR Camera Traps
- D:-Pyrolytic Detection Camera Traps

Correct Answer:- Option-B

Question40:-The ideal trap for studying the nocturnal non-volant small mammals is

- A:-Sherman Trap
- B:-Pitfall Trap
- C:-Mist Net
- D:-Camera Trap

Correct Answer:- Option-A

Question41:-The term social forestry was coined by Westoby in the Commonwealth Forestry Congress held at Delhi in the year

- A:-1964
- B:-1967
- C:-1968
- D:-1970

Correct Answer:- Option-C

Question42:-Section of Wildlife Protection Act 1972 deals with declaration and management of conservation reserves

- A:-36 A
- B:-36 B
- C:-36 C
- D:-36 D

Correct Answer:- Option-A

Question43:-The CVP (Climate, Vegetation and Productivity) index was developed by

- A:-Egler
- B:-Shelford
- C:-Clements
- D:-Paterson

Correct Answer:- Option-D

Question44:-As per Champion and Seth revised classification of forest types, Mangrove Forests are denoted by

- A:-4A/L₍₁₎
- B:-4B/TS₍₂₎
- C:-4C/FS₍₁₎
- D:-4E/RS₍₁₎

Correct Answer:- Option-B

Question45:-Tectona grandis flowers during

- A:-January to March
- B:-February to April
- C:-April to May
- D:-June to September

Correct Answer:- Option-D

Question46:-..... is the average height of a regular crop as determined by Lorey's formula

- A:-Crop Height
- B:-Top Height
- C:-Site Index
- D:-Crop Index

Correct Answer:- Option-A

Question47:-..... is the measure of the humidity in the air when actual vapour pressure equals saturation vapour pressure

- A:-Absolute Humidity
- B:-Specific Humidity
- C:-Relative Humidity

D:-Dew Point

Correct Answer:- Option-D

Question48:-A soil is called when it has irregularly shaped aggregates of medium to hard consistency and more than 25 mm in diameter

A:-Crumby

B:-Cloddy

C:-Blocky

D:-Massive

Correct Answer:- Option-B

Question49:-MIKE is a programme for elephant conservation conceived by

A:-MoEFCC

B:-WWF

C:-CITES

D:-IUCN

Correct Answer:- Option-C

Question50:-Wet bamboo brakes in southern tropical wet evergreen forests is an example for

A:-Climatic Climax

B:-Edaphic Climax

C:-Pre-Climax

D:-Post Climax

Correct Answer:- Option-B

Question51:-The recommended method of sowing of Quercus seeds

A:-Broadcast Seeding

B:-Line Seeding

C:-Patch Seeding

D:-Dibbling

Correct Answer:- Option-D

Question52:-Taungya system was introduced into India in the year

A:-1860

B:-1870

C:-1880

D:-1890

Correct Answer:- Option-D

Question53:-Width of an undercut shall be

A:-One third of the tree diameter

B:-Two third of the tree diameter

C:-One fourth of the tree diameter

D:-Half of the tree diameter

Correct Answer:- Option-B

Question54:-The distance between two adjacent teeth of a saw is called

A:-Space

B:-Gullet

C:-Gauge

D:-Pitch

Correct Answer:- Option-A

Question55:-Wooden slabs of maximum thickness 5 cm is called

A:-Squares

B:-Scantlings

C:-Planks

D:-Hakries

Correct Answer:- Option-C

Question56:-Douglas Fir is a coniferous tree of the genus

A:-Picea

B:-Abies

C:-Tsuga

D:-Pseudotsuga

Correct Answer:- Option-D

Question57:-Wood forming vessels of the same size throughout the year are called as

A:-Ring porous wood

B:-Diffuse porous wood

C:-Early wood

D:-Late wood

Correct Answer:- Option-B

Question58:-The condition in a wood which is apparently caused by anticline division in which new cambial cell formation occurs in one direction only

A:-Spiral Grain

B:-Interlocked Grain

C:-Knots

D:-Both A and B

Correct Answer:- Option-A

Question59:-The formula to calculate the girth under bark (GUB) of a standing tree, if you know the girth over bark (GOB) and bark thickness (t) is

A:- $GUB = GOB + 2 \cdot t$

B:- $GUB = GOB - 2 \cdot t$

C:- $GUB = GOB / 2 \cdot t$

D:- $GUB = GOB \times 2 \cdot t$

Correct Answer:- Option-B

Question60:-Desorption occurs in a wood when

A:-Water vapour pressure in the ambient space is lower than that within the wood

B:-Water vapour pressure in the ambient space is higher than that within the wood

C:-Water vapour pressure within the wood is lower than that in the ambient space

D:-Water vapour pressure in the ambient space becomes equal to that within the wood

Correct Answer:- Option-A

Question61:-Defect in wood due to separation of fibres forming a crack which does not extend from one face to the other

A:-Shake

B:-Split

C:-Check

D:-Honey combing

Correct Answer:- Option-C

Question62:-The International Day for Biological Diversity is on

A:-March 22

B:-April 22

C:-May 22

D:-July 22

Correct Answer:- Option-C

Question63:-National Green Tribunal Act was enacted in the year

A:-2004

B:-2006

C:-2008

D:-2010

Correct Answer:- Option-D

Question64:-The inter generic hybrid produced by Karpechenko in 1928 was a cross between

A:-Wheat and Rye

B:-Radish and Cabbage

C:-Tomato and Potato

D:-Wheat and Barley

Correct Answer:- Option-B

Question65:-Pureline theory was put forwarded by

A:-Johansen

B:-Nilsson

C:-G.H.Shull

D:-Vilmorin

Correct Answer:- Option-A

Question66:-Tiger Reserves were brought under the purview of Wildlife Protection Act, 1972 in amendment

A:-1993

B:-2002

C:-2006

D:-2013

Correct Answer:- Option-C

Question67:-The first National Park in India, Hailey NP, was set up in the year

A:-1935

B:-1937

C:-1967

D:-1965

Correct Answer:- Option-A

Question68:-Project Gir Lion was started in the year

A:-1971

B:-1972

C:-1973

D:-1974

Correct Answer:- Option-B

Question69:-..... is known as father of plant tissue culture

A:-Skoog

B:-Steward

C:-Murashige

D:-Haberlandt

Correct Answer:- Option-D

Question70:-Sariska Tiger Reserve is situated in

A:-Maharashtra

B:-Rajasthan

C:-Madhya Pradesh

D:-Gujarath

Correct Answer:- Option-B

Question71:-The second period of Kyoto Protocol 2013 to 2020 was adopted in the

A:-Copenhagen Accord

B:-Paris Agreement

C:-Doha Amendment

D:-Bali Action Plan

Correct Answer:- Option-C

Question72:-..... is also known as convention on migratory species

A:-Bonn Convention

B:-Vienna Convention

C:-Basel Convention

D:-Rio Convention

Correct Answer:- Option-A

Question73:-..... wildlife sanctuary was declared for the conservation of pitcher plants

A:-Kailadevi

B:-Bandli

C:-Kambalakonda

D:-Baghmara

Correct Answer:- Option-D

Question74:-..... is a small carnivore endemic to Western Ghats

A:-Brown Palm Civet

B:-Smooth Coated Otter

C:-Brown Mongoose

D:-Day's Shrew

Correct Answer:- Option-A

Question75:-Indian Pangolin belongs to the family

A:-Herpestidae

B:-Hystricidae

C:-Mustelidae

D:-Manidae

Correct Answer:- Option-D

Question76:-The concept of hotspots of biodiversity was put forwarded by

A:-Norman Mayer

B:-Aldo Leopold

C:-E.O. Wilson

D:-Mc Arthur

Correct Answer:- Option-A

Question77:-The recommended width of pollen dilution zone around a seed orchard or seed production area is

A:-50 m - 150 m

B:-100 m - 200 m

C:-200 m - 300 m

D:-300 m - 400 m

Correct Answer:- Option-C

Question78:-Shikonin is obtained from

A:-Aleurites fordii

B:-Lithospermum erythrorhizon

C:-Sapindus emarginatus

D:-Ephedra gerardiana

Correct Answer:- Option-B

Question79:-..... is when the performance of a hybrid progeny is better than the better parent

A:-Standard heterosis

B:-Relative heterosis

C:-Absolute heterosis

D:-Heterobeltiosis

Correct Answer:- Option-D

Question80:-Peoples Biodiversity Register is prepared by

A:-National Biodiversity Authority

B:-Biodiversity Management Committee

C:-State Biodiversity Board

D:-District Biodiversity Council

Correct Answer:- Option-B

Question81:-..... is the process of controlled hydration of seeds to a level that permits pregerminative metabolic activity but prevents actual emergence of the radicle

A:-Dry Permeation

B:-Seed Hardening

C:-Seed Priming

D:-Seed Fortification

Correct Answer:- Option-C

Question82:-The inner layer of seed coat is called

A:-Testa

B:-Tegmen

C:-Hilum

D:-Raphe

Correct Answer:- Option-B

Question83:-The Protection of Plant Varieties and Farmers Right Act was enacted in the year

A:-1971

B:-1981

C:-1991

D:-2001

Correct Answer:- Option-D

Question84:-The Parliament by the amendment to the Constitution of India in 1976 brought forests and wildlife on the concurrent list in the schedule

A:-42nd Amendment, 7th Schedule

B:-42nd Amendment, 9th Schedule

C:-47th Amendment, 9th Schedule

D:-47th Amendment, 7th Schedule

Correct Answer:- Option-A

Question85:-Bats are the pollinating agents of

A:-Careya arborea

B:-Sterculia guttata

C:-Oroxylum indicum

D:-Pterocarpus marsupium

Correct Answer:- Option-C

Question86:-..... is a form of precipitation with fine droplets of less than 0.05 cm in diameter

- A:-Snow
- B:-Drizzle
- C:-Sleet
- D:-Hail

Correct Answer:- Option-B

Question87:-Monsoon rainfall in Kerala is an example for

- A:-Convictional Rain
- B:-Cyclonic Rain
- C:-Frontal Rain
- D:-Orographic Rain

Correct Answer:- Option-D

Question88:-..... is a marine protected area in India

- A:-Balphakram
- B:-Gahirmatha
- C:-Simlipal
- D:-Vedanthangal

Correct Answer:- Option-B

Question89:-..... is known as Hangul

- A:-Kashmir Stag
- B:-Brow Antlered Deer
- C:-Swamp Deer
- D:-Manipur Dancing Deer

Correct Answer:- Option-A

Question90:-..... is the proposed second home for Gir Lions in India

- A:-Panna National Park
- B:-Badrama Wildlife Sanctuary
- C:-Kuno Wildlife Sanctuary
- D:-Chandoli National Park

Correct Answer:- Option-C

Question91:-..... wildlife sanctuary in Kerala is named after a tree species

- A:-Shendurney Wildlife Sanctuary
- B:-Peppara Wildlife Sanctuary
- C:-Chimmony Wildlife Sanctuary
- D:-Kurinjimala Sanctuary

Correct Answer:- Option-A

Question92:-..... district in Kerala has largest area under mangrove vegetation

- A:-Thrissur
- B:-Eranakulam
- C:-Kozhikode
- D:-Kannur

Correct Answer:- Option-D

Question93:-The taxon having population size of less than 2500 mature individuals is listed as as per the IUCN redlist criteria

- A:-Critically Endangered
- B:-Endangered
- C:-Vulnerable
- D:-Near Threatened

Correct Answer:- Option-B

Question94:-..... is not a fast growing tree species

- A:-Ailanthus excelsa
- B:-Gmelina arborea
- C:-Albizia procera
- D:-Dalbergia latifolia

Correct Answer:- Option-D

Question95:-Planting by cutting is not practiced for

- A:-Poplar
- B:-Willow
- C:-Mulberry
- D:-None of these

Correct Answer:- Option-D

Question96:-..... provide a source of food to divert wild animals from damaging agricultural resources

A:-Cover Crop

B:-Nurse Crop

C:-Lure Crop

D:-Catch Crop

Correct Answer:- Option-C

Question97:-Weeding done in the interspaces of the desired crop in a plantation is known as

A:-Complete Weeding

B:-Line Weeding

C:-Strip Weeding

D:-Ring Weeding

Correct Answer:- Option-C

Question98:-..... refers to the potential ability of rainfall to cause erosion

A:-Erosivity

B:-Erodibility

C:-Detachability

D:-Transportability

Correct Answer:- Option-A

Question99:-The working plan period ranges from to years

A:-5 to 10 years

B:-10 to 15 years

C:-15 to 20 years

D:-20 to 25 years

Correct Answer:- Option-B

Question100:-Bridges are the special features of garden

A:-Japanese

B:-Persian

C:-Mughal

D:-English

Correct Answer:- Option-A