

# PROVISIONAL ANSWER KEY

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Question1:-Father of modern Tripura

- A:-Kashi Chandra
- B:-Kirit Pradyot Deb Barman
- C:-Ishan Chandra
- D:-Bir Bikram Kishore

Correct Answer:- Option-D

Question2:-Father of Indian Budget

- A:-Lord Rippon
- B:-P.C. Mahalanobis
- C:-Jawaharlal Nehru
- D:-Nandalal Bose

Correct Answer:- Option-B

Question3:-National flower of Pakistan

- A:-Rose
- B:-Lotus
- C:-Dalia
- D:-Jasmine

Correct Answer:- Option-D

Question4:-The first President of Congress Socialist party

- A:-Acharya Narendra Dev
- B:-Sundarayya
- C:-P. Ramamoorthi
- D:-Jayaprakash Narayanan

Correct Answer:- Option-A

Question5:-The first Indian woman president of Indian National Congress

- A:-Annie Besant
- B:-Indira Gandhi
- C:-Sarojini Naidu
- D:-Nellisen Guptha

Correct Answer:- Option-C

Question6:-'English Channel' of India

- A:-Periyar
- B:-Mayyazhipuzha
- C:-Pamba
- D:-Bharathapuzha

Correct Answer:- Option-B

Question7:-Asian country through which Equitorial line passes

- A:-Russia
- B:-India
- C:-China
- D:-Indonesia

Correct Answer:- Option-D

Question8:-The first chairman of Cochin Port trust

- A:-Nandadevi
- B:-M.K. Niyasi
- C:-P.R. Subramanian
- D:-Robert Bristo

Correct Answer:- Option-C

Question9:-Who is known as 'Bihar Gandhi'?

A:-Rajendra Prasad

B:-Gaferkhan

C:-Gandhiji

D:-M.M. Malavya

Correct Answer:- Option-A

Question10:-The first Five Year Plan gave highest priority to

A:-Industry

B:-Agriculture

C:-Science

D:-Transport and communication

Correct Answer:- Option-B

Question11:-Who was the leader of Savarnajatha organized in connection with Vaikom Satyagraha?

A:-Mannathu Padmanabhan

B:-Kumaranasan

C:-Dr. Palpu

D:-G.K. Pillai

Correct Answer:- Option-A

Question12:-Who founded the 'Aryasamajam'?

A:-Velukutty Arayan

B:-Anandatheertha

C:-Agamanandha Swamikal

D:-Pandit Karuppan

Correct Answer:- Option-D

Question13:-Ayyankali formed Sadhujana Paripalana Sangham in

A:-1907

B:-1904

C:-1909

D:-1905

Correct Answer:- Option-A

Question14:-The first Catholic Sanskrit School was set up in 1846 under the leadership of

A:-St. Augustine

B:-Father Vadakkan

C:-Father John Joseph

D:-Kuriakose Elias Chavara

Correct Answer:- Option-D

Question15:-Sree Narayana Guru conducted Siva Consecration in 1888 at

A:-Aruvippuram

B:-Vechoor

C:-Murukkumpuzha

D:-Karamukku

Correct Answer:- Option-A

Question16:-'Twenty love poems and a Song of Despair' written by

A:-Gabrial Garcia Marquez

B:-Pablo Neruda

C:-Betrend Russel

D:-Garcia Lorca

Correct Answer:- Option-B

Question17:-Head Quarters of World Tourism Organisation

A:-Rio

B:-Paris

C:-Madrid

D:-London

Correct Answer:- Option-C

Question18:-Who inaugurated the Rio Olympics of 2016?

A:-Michel Temer

B:-Dilma Rousef

C:-Vanderley Cordiro Delima

D:-Virgeenia Thashar

Correct Answer:- Option-A

Question19:-Who won the Padmaprabha award in 2016?

- A:-C. Radhakrishnan
  - B:-Chandramathi
  - C:-M.T. Vasudevan Nair
  - D:-V. Madhusudhanan Nair
- Correct Answer:- Option-D

Question20:-The biggest film festival in the world

- A:-Sydney Film Festival
  - B:-Punjab Film Festival
  - C:-Cannes Film Festival
  - D:-Goa Film Festival
- Correct Answer:- Option-C

Question21:-Dopamine antagonist available in ovatide is

- A:-Pimozide
  - B:-Domperidone
  - C:-Tamoxifen
  - D:-Acetyl CoA
- Correct Answer:- Option-A

Question22:-Crustacean parasites in aquaculture ponds are controlled using

- A:-`"CuSO\_4`"
  - B:-Malathion
  - C:-Malachite Green
  - D:-DMSO
- Correct Answer:- Option-B

Question23:-Chelating agents used in shrimp hatchery is

- A:-Sodium thiosuphate
  - B:-Oxytetracyclin
  - C:-Zeolite
  - D:-EDTA
- Correct Answer:- Option-D

Question24:-The most widely used cryoprotectant in fish gamete preservation is

- A:-Methanol
  - B:-Acetic acid
  - C:-DMSO
  - D:-Glycerine
- Correct Answer:- Option-C

Question25:-The teleost fish has the following class of immunoglobulin

- A:-IgE
  - B:-IgM
  - C:-IgA
  - D:-IgG
- Correct Answer:- Option-B

Question26:-An example of Anchor worm is

- A:-Argulus
  - B:-Lernia
  - C:-Gammara
  - D:-Cymathoa
- Correct Answer:- Option-B

Question27:-Cotton wool disease in fish is caused by

- A:-Saprolegnia sp.
  - B:-Branchiomyces sp.
  - C:-Achlya sp.
  - D:-Exophila sp.
- Correct Answer:- Option-A

Question28:-Red tail disease in shrimp is caused by

- A:-MBV
- B:-TSV
- C:-WSSV
- D:-IHHNV

Correct Answer:- Option-B

Question29:-Sodium amytal is a

- A:-Antibiotic
- B:-Antibacterial agent
- C:-Anesthetic drug
- D:-Larvicidal drug

Correct Answer:- Option-C

Question30:-Gonodotropic hormone with low carbohydrate content induces

- A:-Maturation and ovulation
- B:-Vitellogenesis
- C:-Spawning
- D:-Hatching ratio

Correct Answer:- Option-B

Question31:-Deficiency of a vitamin in the diet results in the deformed quality of eggs with low hatchability

- A:-Vitamin C
- B:-Vitamin B12
- C:-Vitamin D
- D:-Vitamin A

Correct Answer:- Option-A

Question32:-Which live feed is usually needed to be enriched for nutritional quality before administration?

- A:-Diatoms
- B:-Artemia nauplii
- C:-Rotifers
- D:-Copepods

Correct Answer:- Option-C

Question33:-What is an important concept in ecosystem based management of aquaculture production systems?

- A:-Stocking density
- B:-Relative growth
- C:-Carrying capacity
- D:-Feed management

Correct Answer:- Option-C

Question34:-Aquaculture is the fastest growing food production sector in the world with an average growth rate of \_\_\_\_\_ annually.

- A:-4.2%
- B:-2.5%
- C:-6.9%
- D:-5.5%

Correct Answer:- Option-C

Question35:-Which organisms dominates the global mariculture production by almost 60% percentage of total production?

- A:-Arthropods
- B:-Finfishes
- C:-Molluscs
- D:-Echinoderms

Correct Answer:- Option-C

Question36:-The artificial substrates used to collect the spat settled in the bivalve hatchery for transferred into open water culture

- A:-Longlines
- B:-Cultch
- C:-Chaplets
- D:-Bufo

Correct Answer:- Option-B

Question37:-Which are mainly used as sentinel organisms for monitoring the contaminants in the marine environment?

- A:-Sea cucumbers
- B:-Polychaetes
- C:-Mussels
- D:-Sea weeds

Correct Answer:- Option-C

Question38:-Usually bivalves molluscs shows \_\_\_\_\_ hermaphroditism type of reproduction.

- A:-Protogynous

B:-Protandrous

C:-Androgynous

D:-All the above

Correct Answer:- Option-B

Question39:-An rapid reproductive maturation in shrimps can be achieved by adopting a technique is called as

A:-Hormone injection

B:-Eye stalk abalation

C:-Heat shock method

D:-Wet feed administration

Correct Answer:- Option-B

Question40:-The use of a combination of GnRF analogue and a dopamine antagonist to induce ovulation and spawning of fishes is known as

A:-Linpe metod

B:-Hypophysation

C:-Gulland technique

D:-Walne method

Correct Answer:- Option-A

Question41:-Through eye stalk abalation, we are effectively remove the source of hormone and other compounds that control of \_\_\_\_\_.

A:-Ecdysis

B:-Vitalogenesis

C:-Spawning

D:-Embryogenesis

Correct Answer:- Option-A

Question42:-Open thelycum shrimp must \_\_\_\_\_ before each spawning.

A:-Mate

B:-Moult

C:-Mature

D:-All the above

Correct Answer:- Option-A

Question43:-Copulation in the decapod crustaceans typically involves between male and \_\_\_\_\_.

A:-Maturated female

B:-Moulted female

C:-Berried female

D:-Morbid female

Correct Answer:- Option-B

Question44:-Artemia will produce cyst through \_\_\_\_\_ reproduction.

A:-Ovipary

B:-Ovovivipary

C:-Vivipary

D:-Altricial development

Correct Answer:- Option-A

Question45:-Brooder fishes are usually marked by \_\_\_\_\_ for identification and management in captivity.

A:-Pit tag

B:-Staining

C:-Opercular rings

D:-Peterson disc

Correct Answer:- Option-A

Question46:-Which is the technique is used to determine the ovarian developments in the broodstock fish?

A:-Catheter

B:-Cannulation

C:-Stripping

D:-Ova diameter study

Correct Answer:- Option-B

Question47:-\_\_\_\_\_ is the first feeding larva in the life cycle of shrimp in larval development.

A:-Nauplii

B:-Mysis

C:-Protozoa

D:-Zoea

Correct Answer:- Option-C

Question48:-The cultivable fish well known for its parental care behaviour

- A:-Sea bass
- B:-Pearl spot
- C:-Pompano
- D:-Pangassius

Correct Answer:- Option-B

Question49:-The slope of the periphery bunds is worked out by using \_\_\_\_\_ formula during the pond construction.

- A:-Mannings
- B:-Gulland
- C:-Benwton
- D:-None of the above

Correct Answer:- Option-A

Question50:-Which is the ideal fish to culture using biofloc technology?

- A:-Sea bass
- B:-Tilapia
- C:-Mullet
- D:-Etroplus

Correct Answer:- Option-B

Question51:-Simazine is used for controlling

- A:-Blue green algae
- B:-Fish lice
- C:-Fungi
- D:-Virus

Correct Answer:- Option-A

Question52:-Acidosis is caused due to

- A:-Decrease of calcium salts
- B:-Increase in chlorine content
- C:-Increase iron content in water
- D:-Decrease in sulfate content

Correct Answer:- Option-A

Question53:-The use of hormone injection for induced breeding of fishes started in

- A:-Brazil
- B:-India
- C:-Russia
- D:-China

Correct Answer:- Option-A

Question54:-To eradicate the submerged weeds, weedicide used is

- A:-2,4-D
- B:-Zeolite
- C:-Formalin
- D:-Malathion

Correct Answer:- Option-A

Question55:-All male production of guppies can be obtained using

- A:-MS222
- B:-Estrogen
- C:-17 `alpha` MT
- D:-HCG

Correct Answer:- Option-C

Question56:-Ideal slope of pond is

- A:-2 :1
- B:-1 : 1
- C:-1 : 2
- D:-1 : 5

Correct Answer:- Option-B

Question57:-In fish breeding 2-phenoxyethanol is used as

- A:-Antiseptic
- B:-Anaesthetic
- C:-Antibiotic

D:-Analogue hormone

Correct Answer:- Option-B

Question58:-Ranchu is a variety of

A:-Koi carp

B:-Goldfish

C:-Tetra

D:-Guppy

Correct Answer:- Option-B

Question59:-Which equipment is used in reducing the organic/biological load in reef aquaria?

A:-Powerhead

B:-Canister Filter

C:-Wave maker

D:-Protein skimmer

Correct Answer:- Option-D

Question60:-Which parasite was reported to cause mass mortality in *Poecilia reticulata* and is known as guppy killer disease?

A:-Lernaea

B:-Tetrahymena

C:-Argulus

D:-Ichthyophthirius

Correct Answer:- Option-B

Question61:-Scientific name of Neon tetra

A:-*Scleropages formosus*

B:-*Pterophyllum scalare*

C:-*Poecilia reticulata*

D:-*Paracheirodon innesi*

Correct Answer:- Option-D

Question62:-Gonopodium is the modified \_\_\_\_\_ fin of male swordtail, *Xiphophorus helleri*.

A:-Caudal fin

B:-Pectoral fin

C:-Anal fin

D:-Pelvic fin

Correct Answer:- Option-C

Question63:-The Thelycum of female shrimp is a modification of the

A:-Sternal plate

B:-Exopodite

C:-Endopodite

D:-Pleura

Correct Answer:- Option-A

Question64:-In India, the blacklip pearl oysters is endemic to

A:-Lakshadweep Islands

B:-East coast

C:-West coast

D:-Andaman and Nicobar Islands

Correct Answer:- Option-D

Question65:-The last stage of larva during the development stage of rock lobsters is

A:-Glochidium

B:-Pediveliger

C:-Plerulus

D:-Brachionus

Correct Answer:- Option-C

Question66:-The ratio of dry meat weight to volume shell cavity is known as

A:-Gastro Somatic Index

B:-Body Mass Index

C:-Capacity Index

D:-Condition Index

Correct Answer:- Option-D

Question67:-The first shrimp species successfully bred in captivity is

A:-*P. japonicas*

B:-*P. merguensis*

C:-P. semisulcatus

D:-P. Monodon

Correct Answer:- Option-A

Question68:-A modern shrimp hatchery is considered as \_\_\_\_\_ type hatchery system.

A:-IMTA

B:-Japanese system

C:-Galveston system

D:-Eco hatchery

Correct Answer:- Option-C

Question69:-The genital opening in male shrimp is situated at the base which pereopod

A:-Second

B:-Third

C:-Fourth

D:-Fifth

Correct Answer:- Option-D

Question70:-The prime shrimp hatchery technology in India is developed for

A:-F. indicus

B:-P. semisulcatus

C:-L. vannamei

D:-P. Monodon

Correct Answer:- Option-D

Question71:-In India Clarius batrachus is commonly known as

A:-Stinging catfish

B:-Magur

C:-Snakehead

D:-Murrel

Correct Answer:- Option-D

Question72:-Valvet disease is caused by

A:-Bacteria

B:-Virus

C:-Fungi

D:-Protozoa

Correct Answer:- Option-D

Question73:-'Freeboard' is the term used with reference to the construction of

A:-Dike

B:-Spillway

C:-Sluice

D:-Bund

Correct Answer:- Option-A

Question74:-Which is called the mother of probiotics?

A:-Nitrosomonas

B:-Lactobacillus

C:-Nitrobacter

D:-None

Correct Answer:- Option-B

Question75:-Scoliosis and Lordosis disease is caused by the deficiency of Vitamin

A:-A

B:-B

C:-C

D:-None

Correct Answer:- Option-C

Question76:-Gynogenesis occurs naturally in some fishes belonging to the family

A:-Poeciliidae

B:-Cichlidae

C:-Cyprinidae

D:-Bagridae

Correct Answer:- Option-C

Question77:-Induced breeding and seed production technology for sea bass was first developed by

A:-CMFRI

B:-RGCA

C:-CIBA

D:-CIFRI

Correct Answer:- Option-C

Question78:-Koi carp is developed from common carp by

A:-Transgenesis

B:-Selective breeding

C:-Gynogenesis

D:-Mutation

Correct Answer:- Option-B

Question79:-Fishes which deposit eggs on sand are called

A:-Lithophils

B:-Psammophils

C:-Phytophils

D:-Speleophils

Correct Answer:- Option-B

Question80:-P. Monodon attains first maturity in

A:-8 month

B:-10-12 months

C:-6 months

D:-13-15 months

Correct Answer:- Option-B

Question81:-In fish feeds what is added to enhance colouration

A:-Cellulose

B:-CMC

C:-Carotenoids

D:-Gelatin

Correct Answer:- Option-C

Question82:-Random sampling means

A:-Providing equal chance to all the individuals to be sampled

B:-Sampling from prefixed stations

C:-Sampling from randomly selected stations

D:-Sampling assuming equal distribution of samples in the population

Correct Answer:- Option-A

Question83:-Comparison of means of five different treatments can be achieved by

A:-t-test

B:-Chi-square test

C:-Correlation analysis

D:-F-test

Correct Answer:- Option-D

Question84:-Freshwater Prawn, *Macrobrachium rosenbergii* is \_\_\_\_\_.

A:-Herbivorous

B:-Carnivorous

C:-Omnivorous

D:-Detritivorous

Correct Answer:- Option-D

Question85:-Commercial level captive breeding and larval rearing of mud crabs is carried out by \_\_\_\_\_.

A:-CMFRI

B:-CIFRI

C:-RGCA

D:-College of Fisheries - Mangalore

Correct Answer:- Option-C

Question86:-Active compound present in Mahua oil cake to kill fishes is \_\_\_\_\_.

A:-Niclosamide

B:-MS222

C:-Rotenone

D:-Saponin

Correct Answer:- Option-D

Question87:-Which among the following is used during pond preparation to control obnoxious gas?

A:-Calcium carbonate

B:-Alum

C:-Zeolite

D:-Mahua

Correct Answer:- Option-C

Question88:-Shrimp introduced recently in Indian aquaculture

A:-Litopenaeus vannamei

B:-Penaeus japonicus

C:-Penaeus merguensis

D:-Penaeus monodon

Correct Answer:- Option-A

Question89:-Mahima shrimp feed is developed by \_\_\_\_\_.

A:-CMFRI

B:-CIFT

C:-Kerala State Fisheries Department

D:-MPEDA

Correct Answer:- Option-A

Question90:-Monogamy is seen in

A:-Angel fish

B:-Guppies

C:-Koi carps

D:-Goldfish

Correct Answer:- Option-A

Question91:-Highest carotenoid content was observed in

A:-Chlorella

B:-Haematococcus

C:-Isochrysis

D:-Spirulina

Correct Answer:- Option-D

Question92:-Green fluorescent zebra Danio reiro is produced by

A:-Androgenesis

B:-Gynogenesis

C:-Transgenesis

D:-Chemical treatment

Correct Answer:- Option-C

Question93:-Ammonia concentration is toxic to fish beyond

A:-0.05 mg/L

B:-0.5 mg/L

C:-0.75 mg/L

D:-10 mg/L

Correct Answer:- Option-A

Question94:-The factor that controls productivity in aquaculture pond is

A:-Colloidal content of soil

B:-Acidic bottom of the pond

C:-Calcium content of bottom soil

D:-Cellulose mud of the pond

Correct Answer:- Option-D

Question95:-Breeding Traps are generally used for

A:-Anabantids

B:-Danios

C:-Live bearers

D:-Gold Fish

Correct Answer:- Option-C

Question96:-Moist feed are suitable for

A:-Lobsters

B:-Tiger Shrimp

C:-Freshwater Prawns

D:-Sea bass

Correct Answer:- Option-D

Question97:-Soil having equal proportion of sand silt and clay is called

- A:-Sandy soil
- B:-Clay soil
- C:-Peaty soil
- D:-Loamy soil

Correct Answer:- Option-D

Question98:-Which aqua farming techniques is most appropriate to utilize the autochthonous potentialities of bheels?

- A:-Pig cum fish culture
- B:-Cage culture
- C:-Duck cum fish culture
- D:-Pen culture

Correct Answer:- Option-D

Question99:-Pond sealing may be accomplished by the following method

- A:-Soil compaction
- B:-Water proof lining
- C:-Bentonite application
- D:-All the above

Correct Answer:- Option-D

Question100:-Natural antioxidant used in the aquafeed is

- A:-BHA
- B:-BHT
- C:-Ethoxyquin
- D:-Tocopherol

Correct Answer:- Option-D