

**KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES
UNIVERSITY, BIDAR**

Post Graduate Entrance Examinations : 2021-22

PhD in Poultry Science

Subject Code: P09

HALL TICKET NO.:.....

Date: 10th May 2022

Max Marks : 100

Duration : 2 Hrs.

Choose the correct answer from the four options given under each question and fill the relevant circle with black ball point pen in the OMR Sheet.

Note: 1) Do not use pencil for marking on the OMR Sheet.

2) Marking on the OMR sheet for more than one option for a question will be rendered invalid.

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- 1) Market available commercial broiler attain FE at 6 week age
 - (a) 1.45-1.50
 - (b) 1.65-1.70
 - (c) 1.80-1.85
 - (d) 1.85-1.95
 - 2) Selenium is essential component of following enzyme
 - (a) Co-enzyme
 - (b) amino acid oxides
 - (c) Cholinesterase
 - (d) Glutathione peroxides
 - 3) In quick frozen method pre packed carcass blast frozen at
 - (a) – 2 to – 5°C, air velocity 600-700 rpm
 - (b) -10 -15°C, air velocity 1200-1300 rpm
 - (c) – 30 to -40°C, air velocity 1300-1500 rpm
 - (d) – 70 to -80°C, air velocity 1300-1500 rpm
 - 4) Indicate correct formula for H.U. score
 - (a) $100 \log. \{(H-7.57) + (1.7 \times w^{.37})\}$
 - (b) $100 \log. \{(H+7.57) - (1.7 \times w^{.37})\}$
 - (c) $100 \log. \{(H-7.57) - (1.7 \times w^{.37})\}$
 - (d) $100 \log. \{(H+7.57) + (1.7 \times w^{.37})\}$

- 5) Linear c.m. water space requirement for an adult bird in litter house system
- (a) 1-2 cm (b) 2.5-3.5 cm
(c) 5.5-6.5 cm (d) 4.5-5.5 cm
- 6) Body temperature of newly hatched chicks is
- (a) 105°F (b) 101.3°F
(c) 99.5°F (d) 103.5°F
- 7) Commonly used box size for packaging of 100 day old chicks (L x W x H in cm)
- (a) 46 x 36 x 15 cm (b) 66 x 56 x 25 cm
(c) 56 x 46 x 15 cm (d) 75 x 55 x 35 cm
- 8) Which one of these act as respiratory organ for developing embryo
- (a) Amnion (b) Allantois
(c) Yolk sac (d) Chorion
- 9) Broiler breeders are generally reared on
- (a) All litter floor (b) All wire floor
(c) Litter and slate floor (d) All slate floor
- 10) Hatching chicks pulled at too early from hatcher, may show following condition.
- (a) Chirping loudly (b) A lot of pipped
(c) gasping (d) drying
- 11) Pre incubation storage of hatching eggs for 7 days is done at
- (a) 55°F & 70% RH (b) 50°F & 80% RH
(c) 70°F & 60% RH (d) 65°F & 75% RH
- 12) Optimum body weight for meat type breeder male at 20 wk age is
- (a) 2.6 – 2.7 kg (b) 3.0 – 3.2 kg
(c) 3.6 – 3.8 kg (d) 4.0 – 4.2 kg
- 13) It is not broiler chicks.
- (a) Hubbard (b) Arber acre
(c) Star cross (d) Vencob
- 14) Energy released on metabolization of one mole of glucose in bomb calorimeter
- (a) 4.2 Kcal (b) 5.5 Kcal
(c) 2.5 Kcal (d) 3.3 Kcal

- 15) Impure blood from body is received by
- (a) RT atrium
 - (b) Lt atrium
 - (c) RT ventricle
 - (d) Lt ventricle
- 16) Panting causes respiratory alkalosis due to decrease concentration of
- (a) HCO_3
 - (b) NaHCO_3
 - (c) CaHCO_3
 - (d) H_2CO_3
- 17) Thyroid stimulation hormone is released from.
- (a) Posterior pituitary
 - (b) middle pituitary
 - (c) Anterior pituitary
 - (d) Thyroid gland
- 18) Pleiotropy property is due to
- (a) Hereditary character
 - (b) Genetic correlation due to same gene affecting 2 traits
 - (c) Response to selection
 - (d) related to phenotype and genetic correlation
- 19) Concentration of sperm required for effective fertilization
- (a) 20-30 million
 - (b) 150-160 million
 - (c) 60-70 million
 - (d) 80-100 million
- 20) To perform AI cannula is inseminated at depth of
- (a) 3 cm
 - (b) 6 cm
 - (c) 1-2 cm
 - (d) 8 cm
- 21) Enzyme trypsin is found in following secretion
- (a) salivary secretion
 - (b) intestinal secretion
 - (c) gastric secretion
 - (d) pancreatic secretion
- 22) Which one is not pneumatic bone
- (a) clavicle
 - (b) femur
 - (c) lumbosacral
 - (d) humerus
- 23) Deficiency of vitamin causes jerky movement
- (a) pyridoxine
 - (b) Riboflavin
 - (c) Thiamine
 - (d) Nicotin
- 24) HACCP principle – 3 is
- (a) Identification of critical control point
 - (b) Establishment of corrective action
 - (c) establishment of ccp monitoring requirement
 - (d) establishment of critical control limit

- 25) During long term storage bulk table eggs are preserved at temperature of
- (a) 0 to 4°C (b) 7°C
(c) -2.8°C (d) -5°C
- 26) Deficiency of vitamin result in fatty liver kidney syndrome
- (a) Thiamine (b) biotin
(c) B12 (d) folic acid
- 27) It is less contagious disease due to short survival period of virus out side chick body
- (a) Chicken infections anemia (b) Infections coryzer
(c) lymphoid leukosis (d) Avian Encephalomyelitis
- 28) After commercial processing shell egg are stored at temp of
- (a) 25°F (b) 45°F
(c) 55°F (d) 60°F
- 29) Most abundant protein in egg is
- (a) ovomucin (b) ovalbamin
(c) ovatransferin (d) ovamucoid
- 30) Which one of these is not omega -3 pufa
- (a) Doxaheaxaenoic acid (b) ecosapen taenoic acid
(c) linolenic acid (d) Arachdonic acid
- 31) By adding lactic acid in egg albumen to adjust Ph 7 it can be pasteurized at
- (a) 125-127°F (b) 141-143°F
(c) 101-103°F (d) 146-147°F
- 32) Which one is most commonly used method for desugarization of liquid albumen before preparing egg powder
- (a) Bacterial fermentation (b) yeast fermentation
(c) Enzyme fermentation (d) Adding binding agent
- 33) A microbial load after processing and packaging of shell eggs considered excellent quality egg
- (a) 10²CFU/packaged eggs (b) 10³CFU/packaged eggs
(c) 10⁴CFU/packaged eggs (d) 10⁵CFU/packaged eggs

- 34) Which vitamin present in adequate quantity in liver of chicken
(a) Niacin (b) Vit B₁₂
(c) Vit. A (d) Vit B₂
- 35) Which vitamin requirement decreased in adequate vitamin c in diet
(a) Mg (b) Zn
(c) Mn (d) Fe
- 36) Which one of these is psychrophilic bacteria (grow in cold)
(a) Salmonella (b) clostridia
(c) Snigella (d) Pseudomonas
- 37) During growing period light thresh hold duration should be
(a) 11-12 hrs (b) 8-9 hrs
(c) 14-15hrs (d) 15-16hrs
- 38) The meat preservation method which convert solid ice crystal into vaporized form
(a) Radiation (b) chilling
(c) freez dehydration (d) blast freezing
- 39) Which of these fungal toxin causes main damage to kidney
(a) Aflatoxin (b) ochratoxin
(c) oosporin (d) citrinin toxin
- 40) Incubation period of EMU egg is
(a) 21 days (b) 28 days (c) 42 days (d) 56 days
- 41) Pigeon house is called
(a) Cabinet (b) Crate (c) Lofts (d) Shed
- 42) Aflatoxin tolerance level in duck is
(a) 0.03 ppm (b) 0.06 ppm (c) 0.3 ppm (d) 0.1 ppm
- 43) Electrically control debeaking machine steel blade temperature is
(a) 1100⁰ f (b) 1300⁰ f (c) 1400⁰ f (d) 1500⁰ f
- 44) Salmonella infection considered positive if plate agglutination test show antigen-antibody reaction within
(a) 30 second (b) 60 second
(c) 90 second (d) 120 second

- 45) Regulatory record is
- (a) Pesticide use record
 - (b) Tax record
 - (c) Egg production record
 - (d) Feed allotment record
- 46) Albumen index of fresh chicken egg is
- (a) 0.15-0.18
 - (b) 0.03-0.08
 - (c) 0.08-0.10
 - (d) 0.20-0.22
- 47) A franchise is
- (a) A person setup commercial hatchery
 - (b) Expansion of business in other place
 - (c) License granted by one company to another
 - (d) Setting up of broiler and feed unit at two places
- 48) The term not used in quality maintenance in meat processing plant
- (a) GMP
 - (b) DTP
 - (c) GHP
 - (d) HACCP
- 49) During the incubation period optimum loss of moisture from egg is
- (a) 9-10%
 - (b) 13-15%
 - (c) 12-13%
 - (d) 15-18%
- 50) One of these is incorrect for litter ammonia control
- (a) Lowering litter pH
 - (b) Neutralizing NH_3 gas released
 - (c) Oxidizing NH_3 to other compound
 - (d) Killing ureolytic bacteria in litter
- 51) The inter relationship is incorrect
- (a) Niacin-tryptophan-pyridoxine-pantothenic acid
 - (b) Vitamin E – Vit. A- cystine-Selenium
 - (c) Choline-methionine-folic acid- B_{12}
 - (d) Phosphorous - magnesium – calcium
- 52) A line to be called inbred should have at least inbreeding coefficient of
- (a) 20%
 - (b) 30%
 - (c) 40%
 - (d) 50%
- 53) Selection method is routinely used at present for improvement of lowly heritable traits
- (a) Family selection
 - (b) Individual Selection
 - (c) Combine selection
 - (d) half sib selection

- 54) Which one do not cause chondrodystrophy
- (a) Pyridoxin (b) Niacin
(c) Folic acid (d) Choline
- 55) Index selection by dam family average
- (a) $(P-\bar{P}) + w_2 (Fd-\bar{P}) + (Fs-\bar{P})$ (b) $(P-\bar{P}) + w_1 (Fd-\bar{P}) + w_2 (Fs-\bar{P})$
(c) $w_2 (Fd-\bar{P}) + (Fs-\bar{P})$ (d) $(P-\bar{P}) + w_2 (Fd-\bar{P})$
- 56) Selection pressure is
- (a) Further response to selection
(b) Selection for several traits
(c) Percent of flock retained for breeding in next generation
(d) Increasing the heritability
- 57) It is not immunosuppressive disease
- (a) IBD (b) Egg drop syndrome
(c) Affatoxicosis (d) Chicken infectious anemia
- 58) Coccidia causes main lesion in middle portion of small intestine
- (a) E. tenella (b) E acervulina
(c) E necatrix (d) E praecox
- 59) Frizzle feathering is due to
- (a) Sex linked (b) Sex linked dominant
(c) Auto somal recessive gene (d) Auto somal dominant gene
- 60) Selection method is done to utilized additive genetic effect
- (a) Reciprocal recurrent selection (b) Intra population Selection
(c) Recurrent selection (d) Combine selection
- 61) Breeding value of an individual can be known from the
- (a) Mean value of population from which it produce
(b) Deviation of its progeny from population mean
(c) Mean value of its Progeny
(d) Selected population
- 62) Genetic variance will be maximum when the gene frequency is
- (a) 0.1 (b) 0.9
(c) 1.0 (d) 0.5

- 63 Acetyl coenzyme A carboxylase in liver involve in formation of
 (a) Glucose from non carbohydrate (b) Fat from Fatty acids
 (c) Protein from amino acids (d) Break down of fat into fatty acids
- 64) Transamination is the process
 (a) Degradation of amino acid (b) Mobilization of amino acid
 (c) Formation of various amino acid in body (d) Oxidation to CO_2 , H_2O and energy
- 65) At normal dietary intake, amount of glucose present in per 100ml of chicken blood
 (a) 100-150ml (b) 200-250 ml
 (c) 300-350 ml (d) 400-450 ml
- 66) Respiration in chicken is accomplished by
 (a) Expansion/ contraction of diaphragm (b) Expansion/ contraction of lungs
 (c) Expansion/ contract of respiratory muscles (d) Inhaling air in lungs
- 67) Modularly bone start forming in chicken
 (a) From starter age chicks (b) During growing age chicks
 (c) During egg lying period (d) Few days prior to sexual maturity
- 68) The skeletal of chicken has following cervical and thoracic vertebra
 (a) 13&7 (b) 9&4
 (c) 11&9 (d) 12&7
- 69) Bone lengthen in size by multiplying
 (a) chondrocytes of the growth plate (b) osteocytes of growth plate
 (c) osteoblast of growth plate (d) mucopoly saccharides of growth plate
- 70) During stress condition there is decreased secretion of hormone from
 (a) Adrenal gland (b) Pancreatic gland
 (c) Thyroid gland (d) Ovary
- 71) BPEI=
 (a) $\frac{\text{Total live weight}}{\text{No.CHICKS} \times \text{FE}} \times 100$ (b) $\frac{\text{live weight}}{\text{FE}} \times 100$
 (c) $\frac{\text{Total feed intake}}{\text{No.CHICKS} \times \text{AV body wt}}$ (d) $\frac{\text{Total receipt/dot}}{\text{Total floor area}}$
- 72) Appropriate Male/Female broiler breeder ratio for mating
 (a) 13M:100F (b) 8M:100F
 (c) 18M: 100f (d) 15M:100F

- 73) In broiler breeder flock control feeding programme should adopted from start of
 (a) 1st week (b) 2nd week
 (c) 3rd week (d) 4th week
- 74) To avoid injury following toes of male breeders are clipped
 (a) Three front toes (b) Back and two side toes
 (c) Back toe (d) Back and middle toes
- 75) Protein requirement for egg and meat type breeder respectively
 (a) 17%&16% (b) 16%&17%
 (c) 17%&17% (d) 16%&16%
- 76) Hatching chick weight to its initial egg weight
 (a) 50% (b) 75%
 (c) 85% (d) 65%
- 77) Fluorescent bulb are effective in stimulating E.P. with wave length of
 (a) 6640-7400 (b) 5500-6000
 (c) 4500-5000 (d) 3500-4000
- 78) It present intracellular and has role in osmoregulation
 (a) Na⁺ (b) K⁺
 (c) Cl⁻ (d) P⁺
- 79) Floor space/duckling provided upto 3 week of age
 (a) 0.85-1.0 sqft (b) 1-1.25 sqft
 (c) 0.60-0.75 sqft (d) 0.40-0.60 sqft
- 80) Energy used for maintenance of body tissue synthesis work and egg production
 (a) Gross energy (b) Digestable energy
 (c) Metabolizable energy (d) net energy
- 81) National egg coordination committee was established in the year
 (a) 1982 (b) 1972 (c) 1992 (d) 1975
- 82) Mating of male is more frequent with those females which are
 (a) Lower is social order (b) Precocious social order
 (c) Middle of social order (d) Dominate in social order

- 83) Which one is not applicable advantage in integrated broiler farming?
- (a) Farmer need not to worry for fluctuation broiler prize
 - (b) Farmers need not to worry for rearing expenditure
 - (c) Farmers need not to worry to get qualified vety. Services
 - (d) Farmers and its integrator share equal profit in integrated farming
- 84) Aflatoxin most toxic for chicken
- (a) B1
 - (b) B2
 - (c) G1
 - (d) G2
- 85) Two egg can supply recommended daily allowance of protein in adult
- (a) 7-8%
 - (b) 10-12%
 - (c) 16-17%
 - (d) 20-22%
- 86) As per the BIS (1992), Lysine requirement for broiler is
- (a) 0.9%
 - (b) 0.7%
 - (c) 1.1%
 - (d) 1.3%
- 87) Which one of there is approximate correct NPK in poultry mannure
- (a) N 1.63%, P 4.65%, K 2.10%
 - (b) N 4.65% ,P 2.10%, K 1.63%
 - (c) N 2.10% ,P 1.63%, K 4.65%
 - (d) N 4.65%, P 1.63% , K 2.10%
- 88) Absolute pressure during dehydration of meat should not exceeds above
- (a) 1.5mm hg
 - (b) 2.5 mm hg
 - (c) 3.5 mm hg
 - (d) 5.0mm hg
- 89) % ca and ph present in dicalcium phosphate feed supplement
- (a) 18% & 20%
 - (b) 23% & 13%
 - (c) 23% & 18%
 - (d) 33% & 18%
- 90) Major contamination occurs during processing of poultry meat
- (a) bleeding
 - (b) washing
 - (c) drying
 - (d) scalding
- 91) Which one of this is not antioxidant supplement
- (a) BHA
 - (b) BHT
 - (c) DPPD
 - (d) BHD
- 92) Saturated and unsaturated fatty acid in egg yolk present in ratio of
- (a) 1:12
 - (b) 1:18
 - (c) 1:3:0.8
 - (d) 1:1.3
- 93) Feed consumption in layer chicks upto 8 week of age
- (a) 1.0 to 1.3 kg
 - (b) 2.2 to 2.4 kg
 - (c) 1.6 to 1.8 kg
 - (d) 2.5 to 3.0 kg

- 94) Approximate quantity of oil produced on slaughter of one adult age emu
(a) 1.5 to 2 litre (b) 3.5 to 4 litre
(c) 5 to 6 litre (d) 2 to 3 litre
- 95) Floor space provided/emu chicks during 0-3 week age
(a) 4sqft (b) 5sqft
(c) 6sqft (d) 2.5sqft
- 96) Black head disease in turkey is caused to
(a) Bacteria (b) Fungus
(c) Parasites (d) Virus
- 97) Helicopter feathering observed in disease
(a) Adeno virus infection (b) Chicken infection anemia
(c) Incubation body hepatitis (d) Infection stunning syndrome
- 98) An adult quail consume feed/day
(a) 10-15 g (b) 25-30 g
(c) 50-55 g (d) 60-65 g
- 99) Aflatoxin tolerance level in duck
(a) 0.01 ppm (b) 0.03 ppm
(c) 0.6 ppm (d) 0.1 ppm
- 100) Ulcerative enteritis is caused due to
(a) Clostridia colium (b) clostridia septicum
(c) clostridia perfringens (d) clostridia enteritidis
