

Domain Knowledge Test for recruitment of Assistant Professor in DUVASU, Mathura

Subject: Veterinary Gynaecology and Obstetrics

- Q. No. 1** 2nd stage of parturition is shortest in
- Mare
 - Sow
 - Bitch
 - Cat
- Q. No. 2** Which muscle layer is not incised while performing CS by left flank approach
- External abdominis Oblique
 - Rectus abdominis
 - Internal abdominis Oblique
 - Transverses abdominis
- Q. No. 3** Digital stimulation of vagina in bitch to induce oxytocin release and uterine contraction is
- Weathering
 - Feathering
 - Massaging
 - Leathering
- Q. No. 4** Pygopagus conjoined twins are joined at
- Thorax
 - Ischium
 - Ventral abdomen
 - Sacrum
- Q. No. 5** Version is used to correct
- Presentation
 - position
 - Posture
 - None of the above
- Q. No. 6** Ring womb condition is observed in
- Sheep
 - Cow
 - Goat
 - Pig
- Q. No. 7** FSH and LH hormones are
- Steroid
 - Glycoprotein
 - Protein
 - Fatty acid

- Q. No. 8** **Bloated bull frog like condition is observed in**
- Fetal anasarca
 - Hydroallntois
 - Fetal ascitis
 - Hydroamnios
- Q. No. 9** **The pattern of microfibril arrangement from outside to inside in the tail of a sperm cell is**
- 9 + 9 + 2
 - 9 + 2 + 2
 - 2 + 2 + 9
 - 2 + 9 + 9
- Q. No. 10** **Two cell two gonadotropins model pertains to**
- Leydigs and sertoli cell
 - GnRH and LH
 - Theca interna and Theca externa
 - Estrogen an progestetrone
- Q. No. 11** **Jensen's ring in the sperm is located in the**
- At the junction of mid-piece and principle piece
 - Neck
 - Head
 - At the junction of principal - piece and end piece.
- Q. No. 12** **The proximal protoplasmic droplet in the spermatozoa is a remnant of**
- Nucleus
 - Golgi apparatus
 - Cytoplasm
 - Endoplasmic reticulum
- Q. No. 13** **Potato soup like pus is seen in**
- Brucellosis
 - Campylobacteriosis
 - Trichomoniasis
 - IBR-IPV
- Q. No. 14** **Sample to be taken for Cuboni test is**
- Urine
 - Blood
 - Vaginal secretions
 - Feaces

- Q. No. 15 bPSPB is produced by**
- Binucleate cells of trophoblastic ectoderm
 - uninucleate cells of trophoblastic ectoderm
 - Uninucleate cells of embryoblast ectoderm
 - Binucleate cells of embryoblast ectoderm
- Q. No. 16 Mifepristone is a**
- Progesterone receptor blocker
 - Progesterone receptor activator
 - Estrogen receptor blocker
 - Estrogen receptor activator
- Q. No. 17 Fetal heart beat in bitch by USG can be detected earliest at day**
- 32
 - 12
 - 22
 - 40
- Q. No. 18 Blood in form of dry, amber coloured and granule form on surface of placenta is called**
- Uterine sand
 - Hippomanes
 - Plaques
 - Cervical star
- Q. No. 19 Pseudopregnancy in cats is due to**
- Fall in P₄ level
 - Rise in P₄ level
 - Rise in prolactin level
 - Fall in prolactin level
- Q. No. 20 Stage of oocyte at ovulation in bitch is**
- Metaphase I
 - Prophase I
 - Metaphase II
 - Prophase II
- Q. No. 21 Non Surgical Embryo collection in buffalo during ETT is done on day**
- 7 post superovulatory estrus
 - 8 post superovulatory estrus
 - 9 post superovulatory estrus
 - 6 post superovulatory estrus

- Q. No. 22 Grams theory of adrenal virilism was based on increased level of**
- Estradiol 17β
 - 17-ketosteroids
 - Progesterone
 - Estradiol 17α
- Q. No. 23 Parametritis is inflammation of**
- Uterine ligaments
 - Uterine serosa
 - Entire uterus
 - Uterine endometrium
- Q. No. 24 In IBR-IPV abortions is commonly caused by which clinical form of disease**
- Respiratory form
 - Intestinal form
 - Meningo-encephalitic form
 - Vulvo-vaginal form
- Q. No. 25 For inducing cyclicity in mare during out of season breeding light to darkness ratio should be**
- 10:14
 - 16:8
 - 14:10
 - 8:16
- Q. No. 26 There are _____ diameters of pelvic outlet**
- 6
 - 4
 - 2
 - 3
- Q. No. 27 Technique of fixation of cervix to prepubic tendon to treat CV prolapsed is termed as**
- Farquharsons technique
 - Minchev technique
 - Caslick technique
 - Winklers technique
- Q. No. 28 GnRH is**
- Decapeptide
 - Tetrapeptide
 - Dipeptide
 - Pentapeptide

- Q. No. 29** A new born orphan foal can be fed milk of the following due to nearly similar composition
- Human
 - Cow
 - Goat
 - Buffalo
- Q. No. 30** Duration of each cycle of seminiferous epithelium during spermatogenesis in bull is
- 12 days
 - 14 days
 - 9 days
 - 10 days
- Q. No. 31** During breeding soundness examination of bull the following gland can't be palpated
- Cowpers
 - Vesicular
 - Prostate
 - Ampulla
- Q. No. 32** In Neubauer chamber each primary square is divided into
- 25 tertiary square
 - 400 tertiary square
 - 50 secondary square
 - 400 secondary square
- Q. No. 33** One of the following pelvic ligaments complete the lateral wall of pelvic cavity in cattle
- Dorsal sacroiliac ligament
 - Lateral sacroiliac ligament
 - Sacrosciatic ligament
 - Pre-pubic tendon
- Q. No. 34** Disease not transmitted through semen is
- IBR-IPV
 - Black quarter
 - FMD
 - Trichomoniasis
- Q. No. 35** After about one of the following days of gestation, mare can be ovariectomized without causing abortion
- 110 days
 - 130 days
 - 150 days
 - 170 days

- Q. No. 36** Example of non-permeating cryoprotectant is
- Polyethylene glycol
 - Ethylene glycol
 - Propylene glycol
 - Glycerol
- Q. No. 37** First time semen was frozen at -79°C by
- Polge
 - Ivanoff
 - L Spallanzani
 - none of the above
- Q. No. 38** Example of secondary sperm defect is
- pyriform head
 - Diadem defect
 - Presence of protoplasmic droplet
 - Knobbed acrosome
- Q. No. 39** Riglings term for cryptorchidism is used in
- Horse
 - Buck
 - Ram
 - Boar
- Q. No. 40** Medusa cells in ejaculate are seen in following condition
- Epididymitis
 - Testicular degeneration
 - Testicular hypoplasia
 - Orchitis
- Q. No. 41** Breeders bag for semen collection is used in
- Horse
 - Boar
 - Ram
 - Buck
- Q. No. 42** Diluter used for semen preservation at refrigeration temperature is
- Milovanov diluter
 - Coconut milk extender
 - D₂ dilutor
 - IVT dilutor
- Q. No. 43** The urethra in the glans of a cat is located
- Ventrally
 - Medially
 - Dorsally
 - Laterally

- Q. No. 44 Leutinization before ovulation occurs in**
- Bitch
 - Cow
 - Sheep
 - Swine
- Q. No. 45 Prolactin is luteotropic in**
- Cattle
 - Sheep
 - Swine
 - Ovine
- Q. No. 46 Life span of secondary spermatocyte in stallion is**
- Less than 1 day
 - More than 1 day
 - More than 5 day
 - Between 2 to 5 day
- Q. No. 47 Torsion of uterus is uncommon in mare due to**
- Laterally attached broad ligament
 - Ventrally attached broad ligament
 - Dorsally attached broad ligament
 - Ventro-Laterally attached broad ligament
- Q. No. 48 During recruitment of follicle there is**
- High FSH, Low LH, No inhibin and No E₂
 - High FSH, High LH, No inhibin and No E₂
 - High FSH, High LH, Low inhibin and No E₂
 - Low FSH, Low LH, No inhibin and No E₂
- Q. No. 49 Pore size of embryo filter used in embryo collection in cattle is**
- 100 μ
 - 120 μ
 - 150 μ
 - 70 μ
- Q. No. 50 Ductus arterioiosus shunts takes away blood from**
- Right ventricle to left ventricle
 - Lungs to aorta
 - Liver to left atrium
 - Liver to Righttt atrium
- Q. No. 51 Placenta vera term is used in**
- Swine
 - Ovine
 - Primates
 - Equine

- Q. No. 52** Turning of fetus on its long axis to bring the fetus into dorso-sacral orlumbo-sacral position is termed as
- Version
 - Rotation
 - Mutation
 - Forced extraction
- Q. No. 53** Trachelectomy is done in cases of
- Cervicitis
 - Salphingitis
 - Vaginitis
 - Haemmoraghic Septicemia
- Q. No. 54** RU 486 is
- Misoprostol
 - Mifepristone
 - Aglepristone
 - Epostane
- Q. No. 55** Balanoposthitis is Ram is termed as
- Phallus rot
 - Pizzel rot
 - Rod rot
 - Prep rot
- Q. No. 56** Decreased sperm motility is termed as
- Asthenozoospermia
 - Necrozoospermia
 - Hypospermia
 - Oligozoospermia
- Q. No. 57** Pulsation at base of penis during semen ejaculation is seen in
- Horse
 - Cattle
 - Ram
 - Buck
- Q. No. 58** Example of fetotome is
- Roberts fetotome
 - Schottler fetotome
 - Utretch fetotome
 - Hollando fetotome

- Q. No. 59** Fructolysis index is amount of fructose utilized by _____ spermatozoa in 1 hr at 37 °C
- 10⁶
 - 10⁹
 - 10¹²
 - 10³
- Q. No. 60** Finestrade used to treat prostatic hyperplasia inhibits the following enzyme that converts Testosterone into Dihydrotestosterone
- 17 β hydroxylase
 - 5α reductase
 - 5α hydroxylase
 - 17 β reductase
- Q. No. 61** Surgical flushing of embryo towards uterotubal junction is preferred in
- Caprine
 - Ovine
 - Equine
 - Bovine
- Q. No. 62** AI in bitches is done
- 10-12 days after onset of proestrus bleeding
 - On the day of true estrus
 - 3-5 days after onset of proestrus bleeding
 - 10-12 days after onset of true estrus
- Q. No. 63** Example of Chimera is
- White heifer disease
 - Freemartin
 - Male hermaphrodite
 - Uterus unicornis
- Q. No. 64** Invasive method of sexing of embryo is
- Bio-electromagnetic field
 - immunological assay of HY antigen
 - Quantification of X linked enzyme
 - Y specific DNA probe
- Q. No. 65** Supplementation of one of the following in the media will prevent adhesion of the embryo to the plastic ware
- Heparin
 - BSA
 - Acrosin
 - Phosphate buffer

- Q. No. 66** The upper limit of genes that can be incorporated into retroviral genome to produce transgenic is
- 20 kb
 - 8 kb
 - 15 kb
 - 12 kb
- Q. No. 67** For induction of parturition in Swine the protocol containing___ is best
- Estradiol + PGF_{2α}
 - Dexamethasone
 - PGF_{2α}
 - Misoprostol
- Q. No. 68** During slow freezing of embryos they are dipped in LN₂ when straw containing embryo has reached a temperature of
- 33°C
 - 79°C
 - 15°C
 - 2-5°C
- Q. No. 69** For microencapsulation of sperm following techniques are used
- Distillation
 - Pan coating
 - Isomerization
 - Fractionlisation
- Q. No. 70** During flow cytometer sperm cell sorting, Y bearing sperm move towards
- + field
 - Move straight down
 - field
 - Move straight down
- Q. No. 71** ICSI stands for
- Intracytoplasmic sperm injection
 - Intracervical semen insemination
 - Invivo* cell strand inoculation
 - Invivo* semen insemination
- Q. No. 72** In equine body condition score is measured on a scale of
- 1-10
 - 1-9
 - 1-5
 - 1-20

- Q. No. 73** Most severe form of downward head deviation is in the condition
- Nape presentation
 - Vertex presentation
 - Poll presentation
 - Wry neck
- Q. No. 74** Knuckling of the fetlock and dropping of the hock joint is seen in
- Obturator nerve paralysis
 - Peroneal nerve paralysis
 - Rupture of gastrocnemius muscle
 - Sciatic nerve paralysis
- Q. No. 75** Anterior longitudinal presentation, dorso sacral position with forward extension of hind limb beneath fetal body is
- Breech presentation
 - Dog sitting posture
 - Transverse ventral presentation
 - Transverse dorsal presentation
- Q. No. 76** GPC content is highest in semen ejaculate of
- Ram
 - Bull
 - Boar
 - Stallion
- Q. No. 77** Subinvolution of placental sites is commonly observed in
- Ewe
 - Bitches
 - Doe
 - Cow
- Q. No. 78** To treat TVT in dogs cyclophosphamide is given at dose rate and route
- 25 mg/kg IV
 - 5 mg/kg IV
 - 25 mg/kg PO
 - 5 mg/kg PO
- Q. No. 79** Pluset contains
- FSH and LH
 - GnRH
 - hCG
 - LH

- Q. No. 80** A bitch is brought in clinics with greenish vaginal discharge even after 5 days of whelping indicates
- Retention of placenta
 - Uterine rupture
 - Metritis
 - Eclampsia
- Q. No. 81** Cause of death in bitch affected with pyometra is
- Damage to kidney
 - Apnea
 - Tachycardia
 - Damage to brain
- Q. No. 82** Long standing cases of cystic ovarian degeneration in cows may result into
- Perimetritis
 - Endometritis
 - Mummification
 - Hydrometra
- Q. No. 83** Early pregnancy factor can be detected as early as
- 1 day after fertilization
 - Day 10 of pregnancy
 - 4 day after fertilization
 - Day 21 of pregnancy
- Q. No. 84** Example of class-I anestrus is
- Pregnancy
 - Severe debility
 - Senility
 - Smooth ovaries
- Q. No. 85** The period of fetus in cattle is
- 65 days to parturition
 - 45 days to parturition
 - 10 days to parturition
 - 35 days to parturition
- Q. No. 86** Illerin contains
- Dinoprost
 - Fenprostalene
 - Alphaprostol
 - Tiaprost

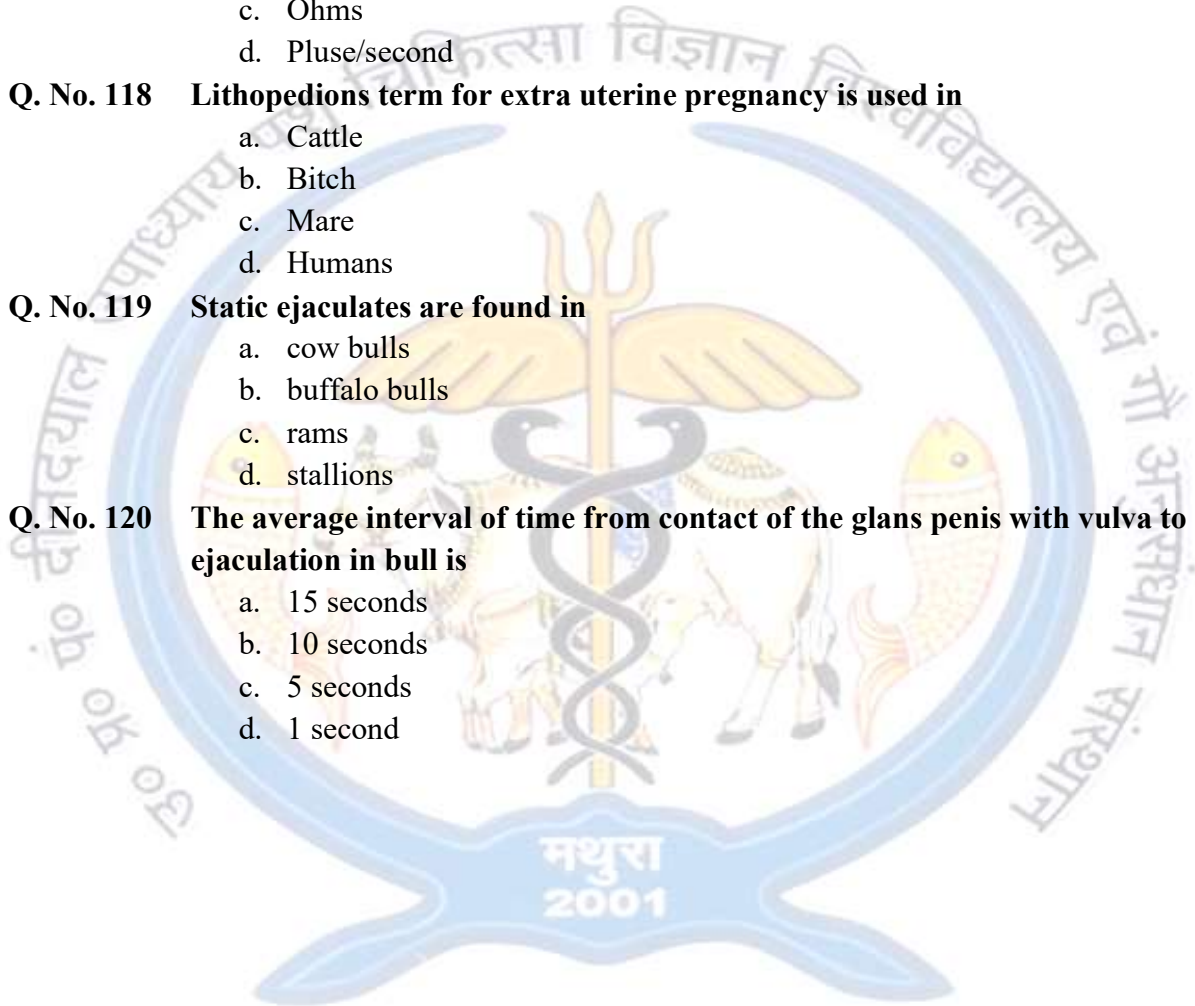
- Q. No. 87** **Hobdays forceps are used in obstetrical cases in**
- Cow
 - Buffalo
 - Bitch
 - Doe
- Q. No. 88** **Rubbin insuffulation is done to diagnose blockade of**
- Fallopian tube
 - Uterine horn
 - Cervix
 - Urethra
- Q. No. 89** **Serologic test is recommended for diagnosis of one of the following diseases**
- Vibriosis
 - Trichomoniasis
 - Campylobacteriosis
 - Brucellosis
- Q. No. 90** **Selenium deficiency is usually observed in newborn**
- Piglet
 - Pup
 - Lamb
 - Calf
- Q. No. 91** **Gestational length in swine**
- 114 days
 - 90 days
 - 62 days
 - 149 days
- Q. No. 92** **Rupture of pre-pubic tendon is common in ___ due to absence of sub pubic tendon**
- Mare
 - Buffalo
 - Cow
 - Bitch
- Q. No. 93** **Epizootic bovine abortion is caused by**
- Herpes simplex
 - Chlamydia
 - Vibrio fetus intestinalis
 - Myxovirus Parainfluenza

- Q. No. 94** One of the following cells do not divide but increase in size to about 30 microns in diameter to form the mature corpus luteum
- Granulosa cells
 - Corona radiata
 - Theca externa
 - Theca interna
- Q. No. 95** Which among following statement regarding steroid hormone is untrue
- Precursor is cholesterol
 - Natural steroids are effective orally
 - Synthetic steroids can be given orally/injection
 - Have a m.wt of 300-400 daltons
- Q. No. 96** During flow cytometry based sperm sexing , X- sperms are given :
- Negative charge
 - Either positive or negative charge
 - Positive charge
 - No charge
- Q. No. 97** Which of the following cryoprotectant is used for one step freezing of embryos
- DMSO
 - Sucrose
 - Ethylene glycol
 - Glycerol
- Q. No. 98** The uterine spasmolytic commonly used during caesarean section in bovine is
- Ethyl alcohol
 - Ergot alkaloids
 - Isoxpurine
 - Fenpiperamide
- Q. No. 99** Stem cells on the basis of their origin can be categorized into _____ types.
- 5
 - 4
 - 3
 - 2
- Q. No. 100** Example of hormone which is fatty acid in nature is
- Prostaglandin
 - Inhibin
 - Vit D
 - Relaxin

- Q. No. 101** Zona hatching in cattle occurs on day
- 9-11
 - 8
 - 7-8
 - 6-7
- Q. No. 102** PGE2 helps in maternal recognition of pregnancy in
- Sheep
 - Mare
 - Goat
 - Cattle
- Q. No. 103** The *in-vitro* viability of embryos is estimated by the ability of cell to exclude
- Trypan blue dye
 - Giemsa
 - Eosin
 - Nigrosin
- Q. No. 104** Zwitter ionic buffers are preferred for extending semen due to its
- Easy availability
 - Easy microscopic examination of extended semen
 - Prevention of cellular damage during freezing
 - Better buffering capacity
- Q. No. 105** Smaller embryonic mass provides _____ antiluteolytic signals.
- Weak
 - No signals
 - Strong
 - Very strong
- Q. No. 106** Adluminal compartment in testis contains
- Spermatogonia and Preleptotene spermatocytes
 - Spermatogonia and Leptotene spermatocytes
 - Spermatogonia and Zygotene spermatocytes
 - Spermatogonia and Pachytene spermatocytes
- Q. No. 107** Lordosis behaviour during sexual receptivity is observed in
- Cats
 - Sheep
 - Goat
 - Mare
- Q. No. 108** Protein hormones are having receptors in
- Cell membrane
 - Nucleus
 - Cytoplasm
 - Mitochondria

- Q. No. 109 Oogonial mitosis is completed after birth in**
- Cow
 - Ewe
 - Doe
 - Sow
- Q. No. 110 Inhibin is secreted from**
- Granulosa cell and Sertoli cell
 - Granulosa cell and Anterior Pituitary
 - Granulosa cell and Posterior pituitary
 - Granulosa cell and Leydigs cell
- Q. No. 111 Maximum number of follicular waves have been reported in which of the following species**
- Bovine
 - Ovine
 - Caprine
 - Swine
- Q. No. 112 Pregnant female conceiving again and carrying second conceptus is termed as**
- Telogony
 - Superfetation
 - Superfecundation
 - Bipregnancy
- Q. No. 113 Sperm reservoirs are localized in pig at**
- Uterotubal junction
 - Endometrial glands
 - Cervix
 - Uterine body
- Q. No. 114 Cleavage of oocyte without participation of nucleus occurs in**
- Parthenogenesis
 - Gynogenesis
 - Androgenesis
 - Digenesis
- Q. No. 115 Mode of transmission of hormones through interstitial fluid is termed as**
- Epicrine
 - Paracrine
 - Endocrine
 - Exocrine

- Q. No. 116 Makler chamber is used for evaluation of**
- Sperm concentration
 - Sperm motility
 - Sperm volume
 - Sperm metabolism
- Q. No. 117 Unit for measuring Vaginal Mucus Impedance is**
- Volt
 - Ampere
 - Ohms
 - Pluse/second
- Q. No. 118 Lithopedions term for extra uterine pregnancy is used in**
- Cattle
 - Bitch
 - Mare
 - Humans
- Q. No. 119 Static ejaculates are found in**
- cow bulls
 - buffalo bulls
 - rams
 - stallions
- Q. No. 120 The average interval of time from contact of the glans penis with vulva to ejaculation in bull is**
- 15 seconds
 - 10 seconds
 - 5 seconds
 - 1 second



Key: Veterinary Gynaecology and Obstetrics

Question Number	Answer	Question Number	Answer	Question Number	Answer
Q.no 1	a	Q.no 41	a	Q.no 81	a
Q.no 2	b	Q.no 42	c	Q.no 82	d
Q.no 3	b	Q.no 43	c	Q.no 83	a
Q.no 4	d	Q.no 44	a	Q.no 84	a
Q.no 5	a	Q.no 45	c	Q.no 85	b
Q.no 6	a	Q.no 46	a	Q.no 86	d
Q.no 7	b	Q.no 47	c	Q.no 87	c
Q.no 8	b	Q.no 48	a	Q.no 88	a
Q.no 9	a	Q.no 49	d	Q.no 89	d
Q.no 10	a	Q.no 50	b	Q.no 90	c
Q.no 11	a	Q.no 51	c	Q.no 91	a
Q.no 12	c	Q.no 52	b	Q.no 92	a
Q.no 13	c	Q.no 53	a	Q.no 93	b
Q.no 14	a	Q.no 54	b	Q.no 94	a
Q.no 15	a	Q.no 55	b	Q.no 95	b
Q.no 16	a	Q.no 56	a	Q.no 96	c
Q.no 17	c	Q.no 57	a	Q.no 97	b
Q.no 18	a	Q.no 58	c	Q.no 98	c
Q.no 19	b	Q.no 59	b	Q.no 99	b
Q.no 20	b	Q.no 60	b	Q.no100	a
Q.no 21	d	Q.no 61	c	Q.no101	a
Q.no 22	b	Q.no 62	a	Q.no102	b
Q.no 23	a	Q.no 63	b	Q.no103	a
Q.no 24	a	Q.no 64	d	Q.no104	b
Q.no 25	b	Q.no 65	c	Q.no105	a
Q.no 26	c	Q.no 66	b	Q.no106	a
Q.no 27	d	Q.no 67	a	Q.no107	a
Q.no 28	a	Q.no 68	a	Q.no108	a
Q.no 29	a	Q.no 69	b	Q.no109	d
Q.no 30	b	Q.no 70	a	Q.no110	a
Q.no 31	a	Q.no 71	a	Q.no111	c
Q.no 32	b	Q.no 72	b	Q.no112	b
Q.no 33	c	Q.no 73	a	Q.no113	a
Q.no 34	b	Q.no 74	b	Q.no114	c
Q.no 35	d	Q.no 75	b	Q.no115	b
Q.no 36	a	Q.no 76	a	Q.no116	a
Q.no 37	a	Q.no 77	b	Q.no117	c
Q.no 38	c	Q.no 78	d	Q.no118	d
Q.no 39	a	Q.no 79	a	Q.no119	b
Q.no 40	c	Q.no 80	a	Q.no120	d