Domain Knowledge Test for recruitment of Assistant Professor in DUVASU, Mathura Subject: Animal Nutrition

Q. No.1		The species which cannot convert glucose to fat
	a	Avian
	b	Caprine
	c	Swine
	d	Equine
Q. No.2		Methane production in rumen from 100 gm digested carbohydrate is
	a	2.00 g
	b	6.25 g
	c	13.34 g
	d	4.50 g
Q. No.3		Although TVFA concentration in the rumen varies with feed and time of
		feeding, it is usually concentration
	a	70-150 mmol/litre
	b	15-180 mmol/litre
Æ	c	190-200 mmol/litre
130	d	220-230 mmol/litre
Q. No.4		Feeding standard based on digestible nutrient content was given by
E	a	Grouven
12	b	Wolff
F	c	Kuhn
4	d	Lehman
Q. No.5		Metabolic faecal nitrogen excretion (gm per kg DM intake) in cattle
0	a	0.5
·P	b	1.0
0	c	2.5
13	d	5.0
Q. No.6	Ω,	The nutritive ratio is equal to
	a	TDN-DCP
	b	(TDN-DCP)/DCP
	c	TDN-CP
	d	(TDN-CP)/CP
Q. No.7		Metabolic water produced per gram of protein is
	a	0.4 g
	b	0.6 g
	c	0.8 g
	d	1.0 g
Q. No.8		The following one is not a feed additive
-	a	Oilcake
	b	Antibiotics
	c	Prebiotics
	d	Binders

	a	Popping
	b	Extruding
	c	Exploding
	d	Roasting
Q. No.10		In ruminants, the ME is calculated from DE by multiplying
	a	0.65
	b	0.75
	c	0.82
	d	0.99
Q. No.11		Excess lipids/oils in the ration of ruminants affect the digestibility of
	a	Crude Protein
	b	Crude Fibre NFE
	c	NFE
	d	Trace minerals
Q. No.12	3	Mixing time required mixing mash type of feeds in a horizontal mixer is
S	a	Less than 1 minute
135	b	3-5 minutes
15	c	10-15 minutes
E	d	20-30 minutes
Q. No.13		Defaunation in ruminants is
F	a	Removal of bacteria
die I	b	Removal of protozoa
10	c	Removal of fungi
2	d	Removal of microbes
Q. No.14		The inclusion level of fish meal in poultry ration is
2	a	1-5%
1	b	5-10%
	c	10-15%
	d	15-20%
Q. No.15		Flame photometry is used to estimate
	a	Phenols
	b	Soluble sugars
	c	Minerals
	d	Green house gases
Q. No.16		Allantoin is
	a	Rumen metabolite
	b	Purine derivative
	c	Anti nutritional factor
	d	Synthetic amino acid

An example of wet processing method of grain is

Q. No.17		Lambert Beer law find its application in	
	a	Colorimetry	
	b	Centrifugation	
	c	In vitro gas production technique	
	d	Electrophoresis	
Q. No.18		Pore size of nylon bag used for in sacco technique is	
	a	1-2 μm	
	b	5-10 μm	
	c	40-60 μm	
	d	80-100 μm	
Q. No.19		Rumen protozoa was discovered by	
	a	R. E. Hungate C. G. Orpin Nehring Gruby and Delafond	
	b	C. G. Orpin	
	c	Nehring	
	d	Gruby and Delafond.	
Q. No.20	3	The major compounds that have been used as chemical preservatives	of
S		high-moisture grain	
135	a	Organic acids	
15	b	Minerals	
E	c	Antibiotics	1
12	d	Probiotics	
Q. No.21		Copper act as a antidote for treatment of	1
C -	a	Zinc toxicity	1
70	b	Linamirin toxicity /	
0	c	Mercury toxicity	
. 6	d	Molybdenum toxicity	
Q. No.22		The isomer of the CLA present in the milk fat is	
Ex	a	Cis-9, Trans-11	
	b	Cis- 11, Trans-13	
	c	Cis-10, Trans-12	
	d	Cis-12, Trans12	
Q. No.23		Which of the following carries B_{12} across the intestinal mucosa?	
	a	Intrinsic factor	
	b	Extrinsic factor	
	c	Antihaemophilic factor	
	d	Animal protein factor	
Q. No.24		Brix a term commonly used to indicate the content of in	
		molasses	
	a	Fat	
	b	Urea	
	c	Sugar	
	d	Protein	

Q. No.25		One calorie is equal to:
	a	0.293 joule
	b	0.239 joule
	c	4.184 joule
	d	3.601 joule
Q. No.26		Streptococcus zymogen is used mainly for the determination of available?
	a	Arginine
	b	Threonine
	c	Methionine
	d	Tryptophan
Q. No.27		Ruminant animals fed high levels of easily fermentable carbohydrates
		without adaptation, are likely to suffer from:
	a	Acidosis
	b	Alkalosis
	c	Alkalosis Hydronephrosis Ketosis
	d	Ketosis
Q. No.28		Methemoglobin is formed in blood of ruminants from toxicity of
15	a	Phytate
18	b	Cyanogen
E	c	Nitrate
Fig.	d	Oxalate
		Which clament from the following is required for the formation of
Q. No.29		Which element from the following is required for the formation of
Q. No.29		mucopolysaccharide which forms the organic matrix of bone?
Q. No.29	a	The same of the sa
Q. No.29	a b	mucopolysaccharide which forms the organic matrix of bone?
Q. No.29		mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper
Q. No.29	b	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese
Q. No.30	b c	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper
台。台	b c d	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium
台。台	b c d	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is
台。台	b c d	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025
台。台	b c d a b	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035
台。台	b c d a b	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045
Q. No.30	b c d a b	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045 0.055 The amino acids which do not participate in transamination reaction
Q. No.30	b c d b c d	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045 0.055 The amino acids which do not participate in transamination reaction
Q. No.30	b c d a b c d b	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045 0.055 The amino acids which do not participate in transamination reaction Lysine & methionine
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Q. No.30 Q. No.31	b c d a b c d b c d	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045 0.055 The amino acids which do not participate in transamination reaction Lysine & methionine Lysine & tryptophane Lysine & tryptophane Lysine & threonine In Van Soest method of analysis, we can determine the Hemicellulose as
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Q. No.30 Q. No.31	b c d a b c d a a	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045 0.055 The amino acids which do not participate in transamination reaction Lysine & methionine Lysine & tryptophane Lysine & threonine In Van Soest method of analysis, we can determine the Hemicellulose as NDF - ADF
Q. No.30 Q. No.31	b c d a b c d a b b c	mucopolysaccharide which forms the organic matrix of bone? Calcium Manganese Copper Magnesium DCP requirement(kg) for production of 1 kg milk with 4% fat is 0.025 0.035 0.045 0.055 The amino acids which do not participate in transamination reaction Lysine & methionine Lysine & tryptophane Lysine & tryptophane Lysine & threonine In Van Soest method of analysis, we can determine the Hemicellulose as NDF - ADF ADF - Lignin

	b	Mice
	c	Hamster
	d	Guineapig
Q. No.34		Rate limiting enzyme in cholesterol biosynthesis?
	a	α 1-4 glucosidase
	b	HMG CoA reductase
	c	Squalene synthetase
	d	7 α hydroxylase
Q. No.35		For fatty acid synthesis, Acetyl CoA comes from mitochondria to
		cytoplasm as?
	a	Carnitine
	b	Malate
	c	Citrate
	d	Oxaloacetate
Q. No.36	S	Organochlorine pesticides have high affinity to accumulate in
100	a	Liver
15	b	Kidney
E	c	Heart
15	d	Fat
Q. No.37		Swollen hock syndrome and frizzled feather in poultry due to deficiency of
4	a	Selenium
40	b	Zinc
0.	c	Copper
· P	d	Iodine
Q. No.38		A number of disorders of cattle & sheep described as "pining", "salt sick",
b.		"bush sickness", & "wasting disease" is associated with deficiency of
(a	Cobalt
	b	Selenium
	c	Sodium
	d	Iron
Q. No.39		Which among the following is most susceptible to aflatoxicosis
	a	Ducks
	b	Pig
		Cattle
	d	Sheep
Q. No.40		In cat, Taurine deficiency leads to
-	a	Ascitis
	b	Retinal degeneration
	c	Goitre
	d	Reproductive problem

Laboratory animal which require dietary source of vitamin C

Q. No.33

a Rat

	a	11 ypsiii
	b	Chymotrypsin
	c	Carboxy peptidase A
	d	Pepsin
Q. No.42		Example of a basic amino acid with epsilon amino group
	a	Methionine
	b	Glycine
	c	Lysine
	d	Tryptophan
Q. No.43		Bitot's spot is seen in deficiency of which vitamin
	a	Vitamin A
	b	Vitamin D
	c	Vitamin E
	d	Vitamin K
Q. No.44	3	Maximum level of urea in the concentrate mixture of cattle is
S	a	1.0%
130	b	3.0%
15	c	5.0%
E	d	7.0%
Q. No.45		Aminopterin is an anti vitamin of
F	a	Thiamin
	b	Biotin
70	c	Pantothenic acid
9	d	Folic acid
Q. No.46		Esters of fatty acids with higher molecular weight alcohols other than
0		glycerol
P	a	Waxes
	b	Lipids
	c	Lecithin
	d	Cephalin
Q. No.47		In ruminants, methyl malonic aciduria is seen in the deficiency of
	a	Vitamin B_1
	b	Vitamin B ₆
	c	Vitamin B ₁₂
	d	Folic acid
Q. No.48		% NDF in total ration is critical for maintenance of normal milk fat
	a	25.0-28.0%
	b	40.0- 42.0 %
	c	62.0 -66.0%
	d	70.0- 73.0 %

Which of the following is an exopeptidase

	b	Sinapyl alcohol
	c	Coniferyl alcohol
	d	Coumaryl alcohol
Q. No.50		The true ketogenic amino acid is
	a	Phenyl alanine
	b	Leucine
	c	Arginine
	d	Serine
Q. No.51		Which one of the following is a rumen protozoan:
	a	Dasytricha ruminantium
	b	Selenomonas ruminantium
	c	Magasphaera eldenii
	d	Methanobacterium ruminantium
Q. No.52	3	The vitamin which acts as a cofactor in transamination reaction
B	a	Thiamin
15	b	Riboflavin
18	c	Pyridoxine
F	d	Biotin
Q. No.53		One example of pentasaccharide is
E	a	Stachyose
4	b	Raffinose
10	c	Xylose
9	d	Verbascose
Q. No.54		Consumption of raw eggs may produce the deficiency of
2	a	Thiamin W W W W W W W W W W W W W W W W W W W
12	b	Biotin
	c	Menadione
	d	Folic acid
Q. No.55		Rumen butyric acid conversion to ketone bodies takes place primarily in
	a	Hepatic tissues
	b	Extra Hepatic tissues
	c	Ruminal wall
	d	Rumen fluid
Q. No.56		Dry matter (%) of canned dog food is
	a	22-26
	b	46-52
	c	70-84
	d	90-94

Which one of the following is not a phenyl propane derivatives?

Q. No.49

a Isopropyl alcohol

	a	Vitamin A
	b	Vitamin D
	c	Vitamin E
	d	Vitamin K
Q. No.58		Which of the following feed ingredient is used as energy source but not a
		protein source?
	a	Linseed meal
	b	Salseed meal
	c	Mustard cake
	d	Sunflower cake
Q. No.59		"Enzootic ataxia" in Australia & "Swayback" in U.K affecting young
		lambs results due to deficiency of the element
	a	Sulpher
	b	Copper
	c	Manganese
S	d	Iodine
Q. No.60		Feed additive which get lodged in gizzard of poultry and helps in grinding
15	a	Limestone
E	b	Grit
15	c	Inulin
T	d	Gizzarosine
Q. No.61		Mannan oligosaccharide is used in poultry feed as
70	a	Probiotic
0	b	Prebiotic
·P	c	Antibiotic
0	d	Acidifier
Q. No.62		Death in HCN poisoning is due to
	a	Depression of respiratory centre in the brain
	b	Low oxygen tension in the lungs
	c	Inability of the tissues of exchange oxygen
	d	Clotting of blood
Q. No.63		Fat is absorbed from intestinal lumen as
	a	Chylomicron
	b	Very low density lipoprotein
	c	Micelle
	d	High density lipoprotein
Q. No.64		Recommended protein level (%) for adult maintenance cat diet is
	a	10
	b	15
	c	20
	d	25

Q. No.57 In poultry, nutritional roup is caused by the deficiency of

	a	1.87 Kg
	b	2.87 Kg
	c	3.87 Kg
	d	4.87 Kg
Q. No.66		The oil has lowest iodine value is
	a	Coconut oil
	b	Castor seed oil
	c	Cotton seed oil
	d	Soybean oil
Q. No.67		The normal temperature of rumen liquor is
	a	30-34°C
	b	30-34 C 44-48°C 26-30°C
	c	$26-30^{\circ}$ C
	d	38-42 ^o C
Q. No.68	3	The concentration (%) of dispensable amino acid in tissue protein is
S	a	20
130	b	30
1	c	40
E	d	50
Q. No.69		Penguin like squat in hens is due to deficiency of
-	a	Vitamin B ₁
4	b	Vitamin B ₂
10	c	Vitamin B ₆
0	d	Vitamin D ₃
Q. No.70		Which one of the following fatty acid may be termed as volatile fatty
2		acid?
12	a	Stearic
	b	Palmitic
	c	Myristic
	d	Lauric
Q. No.71		In very good silage pH ranges from
	a	3.5-4.2
	b	4.2-4.8
	c	4.8-5.2
	d	5.2-5.8
Q. No.72		The rate of absorption of sugars decreases in the following order
	a	Glucose>galactose>fructose>pentose
	b	Galactose>glucose>fructose>pentose
	c	Fructose>glucose>galactose>pentose
	d	Pentose>glucose>galactose>fructose

1 kg of urea with 46% nitrogen equivalent to protein is

		stanuaru
	a	Haecker standard
	b	ARC
	c	NRC
	d	Morrison standard
Q. No.74		The anti nutritional factor present in water hyacinth is
	a	Phytic acid
	b	Oxalic acid
	c	Prussic acid
	d	Ricin
Q. No.75		Trypsin inhibitor of soybean interferes with the utilization of
	a	Methionine
	b	Lysine
	c	Arginine
	d	Tryptophan () () ()
Q. No.76		Fatty liver kidney syndrome in young broiler is due to deficiency of
130	a	Vitamin A
18	b	Riboflavin
E	c	Biotin
Fig.	d	Manganese
Q. No.77		Cerebrocortical necrosis in sheep is due to deficiency of
	a	Manganese Cerebrocortical necrosis in sheep is due to deficiency of Thiamin
10	b	Riboflavin
0	c	Niacin
. 6	d	Pantothenic acid
Q. No.78		The protein requirement (g/w ^{0.75}) for calculating DCP requirement for
12		maintenance of cattle is
	a	2.48
	b	2.84
	c	3.61
	d	4.41
Q. No.79		In which of the following techniques the analytical materials are
		separated by using a mobile phase
	a	Colorimetery
	b	Chromatography
	c	Spetrophotometry
	d	Electrophorosis
Q. No.80		In fattening when carbohydrate is converted to fat, RQ value will be
	a	0.7
	b	0.8
	c	1.0
	d	More than 1.0

Indian feeding standard is based on which of the following feeding

Q. No.81		Molybdenum is a constituent of which of the following enzyme
	a	Carbonic anhydrase
	b	Glutathione peroxidase
	c	Xanthin oxidase
	d	Catalase
Q. No.82		Thumps in pigs is associated with deficiency of
	a	Copper
	b	Iron
	c	Zinc
	d	Selenium
Q. No.83		Impact grinding is working principle of which of the following mills
	a	Roller mill
	b	Percussion mill
	c	Jaw crusher
	d	Hammer mill
Q. No.84	3	Roller mill Percussion mill Jaw crusher Hammer mill Element required for hydrogenation of fat is
P	a	Iron
15	b	Copper
18	c	Cobalt
F	d	Nickel
Q. No.85		Piglets reared in intensive concrete sty have specifically high requirement
E		for
China I	a	Iron
10	b	Folic acid
9	c	Calcium
P	d	Vitamin D
Q. No.86		A calf weighing 30 kg requires kg of colostrum per day at first
~	0	week of age
	a	2.0
	b	2.5
	c	3.0
	d	3.5
Q. No.87		Which of the following mineral is required to prevent dental carries
	a	Calcium
	b	Phosphorus
	c	Magnesium
	d	Fluorine
Q. No.88		Hypomagnesaemic tetany can be aggravated by dressings of pasture with
	a	Calcium
	b	Potassium
	c	Iron
	d	Zinc

		propionic acid via glucose
	a	12
	b	17
	c	18
	d	25
Q. No.90		Feed ingredient contain highest level of calcium among the following is
	a	Cotton seed hulls
	b	Soybean hulls
	c	Soybean seed
	d	Cotton seed
Q. No.91		The insoluble oxalate present in the plant feedstuff is in the form of
	a	Calcium oxalate
	b	Potassium oxalate
	c	Sodium oxalate
4	d	Ammonium oxalate
Q. No.92		Goose stepping in swine is due to deficiency of
130	a	Vitamin A
10	b	Vitamin E
E	c	Vitamin C
12	d	Pantothenic acid
Q. No.93		The minimum crude protein content in Compounded cattle feed (grade I)
		as per BIS
70	a	22.0%
0	b	20.0%
. 6	c	18.0%
0	d	16.0%
Q. No.94	_ '	Which of the following is an example of ionophoric antibiotic
	a	Oxytetracycline
	b	Penicillin
	c	Bacitracin
	d	Monensin
Q. No.95		If an animal consumes 5kg DM and excretes 6 kg feaces with 50%
		moisture, the digestibility co efficient of DM will be
	a	40.0%
	b	50.0%
	c	60.0%
	d	70.0%
Q. No.96		Which vitamin is dietary essential to maintain hoof quality in equine?
	a	Thiamin
	b	Riboflavin
	c	Biotin
	d	Niacin

The net gain of ATP(mole / per mole of propionic acid) by oxidation of

a	2500
b	2600
c	2800
d	3000
Q. No.98	Pre ruminal calves require usual essential amino acid except
a	Lysine
b	Arginine
c	Histidine
d	Threonine
Q. No.99	Sulphur hexa fluoride (SF ₆) is used for estimation of
a	CO ₂ production
b	Methane production VFA production
c	VFA production
d	Lactic acid production
Q. No.100	In vitro gas production technique for feed quality evaluation was given by
a	Menke and coworkers
/25 b	Henneberg&Stohmann
/ c	Tilley and Terry
d	Van Soest and Co workers
Q. No.101	Salt feeding in dogs is contraindicated in Ascitis Diabetes Liver diseases
a	Ascitis
b	Diabetes
c	Liver diseases
9 d	Myocarditis
Q. No.102	Coenzyme A contains
a	Thiamin
b	Riboflavin
c	Pantothenic acid
d	Biotin
Q. No.103	Gross Energy value(kcal/g) of methane is
a	3.76
b	5.86
c	9.21
d	13.25
Q. No.104	Leucaenaleucocephala contains anti nutritional factors as
a	Oxalate
b	Gossypol
c	Glucosinolates
d	Mimosine

The ME (kcal/kg) content of layer ration as per BIS (2007) should be

-	•
a	Vitamin E
b	Vitamin B ₁
c	Vitamin B ₆
d	Vitamin C
Q. No.106	The following chemical may act as potential toxin for cat is
a	Benzoic acid
b	Sorbic acid
c	Propylene glycol
d	Glycerol
Q. No.107	Haylage has a moisture content of
a	35-40%
b	40- 45%
c	35-40% 40- 45% 55-60%
d	60-65%
Q. No.108	The optimum crude fibre (%) content in dog diet on dry matter basis is
a	1-3
120 b	3-5
c	5-8
d	8-11
Q. No.109	Depigmentation of colored hair and black wool is a common finding in
a	Iron deficiency
b	Copper deficiency Copper deficiency
c	Magnesium deficiency
Q d	Calcium deficiency
Q. No.110	Young male pigs undergo symptoms of feminization if feed contain
a	Zearalenone
b	Aflatoxin
c	Fumonisin
d	Ochratoxin
Q. No.111	The available phosphorus (% by mass, minimum) in pre-starter broiler
	chick feed as per BIS (2007) is
	0.35
	0.45
c	0.55
d	0.60
Q. No.112	In ruminants, for efficient utilization of NPN compounds the protein
	content of the basal concentrate mixture should be
	Below 13.0%
	14.0-18.0%
c	19.0-20.0%
d	20.0 - 22.0%

Q. No.105 Which vitamin is synthesized from glucose

Q. No.113	"Alkali disease" or "blind staggers" is caused by the toxicity of
a	Copper
b	Molybdenum
c	Selenium
d	Magnesium
Q. No.114	The CP (%) of good quality solvent extracted mustard seed cake is
a	35
b	42
c	45
d	27
Q. No.115	Yield of Microbial protein by digestion of one kilogram of organic matter
	in the rumen ranges
a	20-250 g
b	90-230 g
c	150-400 g
d	200-450 g
Q. No.116	Average daily feed intake of a laying hen
As a	60.0g
b	110.0 g
c	220.0
d	300.0 g
Q. No.117	300.0 g The deleterious factor present in spent tea leaves are Ricin
a	Ricin
b	Mowrine
O c	Saponin
d	Tannin
Q. No.118	Which of the following is referred as Lipotropic factor
a	Choline
b	Biotin
c	Thiamin
d	Niacin
Q. No.119	Physiological fuel value (kcal/g)of protein is
a	4.00
b	5.65
c	6.25
d	9.00
Q. No.120	Which of the following vitamin is a structural component of body tissue
a	Vitamin B ₁
b	Vitamin B ₂
c	Choline
d	Biotin

Key: Animal Nutrition

Q. No.	Answer	Q. No.	Answer	Q. No.	Answer
1.	b	41.	С	81.	c
2.	d	42.	С	82.	b
3.	a	43.	a	83.	d
4.	b	44.	b	84.	d
5.	d	45.	d	85.	a
6.	b	46.	a	86.	С
7.	a	47.	С	87.	d
8.	a	48.	a	88.	b
9.	c	49.	c a	89.	b
10.	C	50.	b	90.	b
11.	23 b	51.	a	91.	a
12.	b	52.	С	92.	d
13.	b	53.	d	93.	an
14.	b	54.	b	94.	d
15.	c	55.	c	95.	a
16.	b	56.	a	96.	c
17.	a	57.	a	97.	b
18.	c	58.	b	98.	b
19.	d	59.	b	99.	b
20.	a	60.	b	100.	a
21.	d	61.	b	101.	a
22.	a	62.	a	102.	c
23.	a	63.	c	103.	d
24.	c	64.	c	104.	d
25.	c	65.	b e	105.	d
26.	c	66.	a	106.	a
27.	a	67.	d	107.	b
28.	c	68.	c	108.	b
29.	b	69.	d	109.	b
30.	c	70.	d	110.	a
31.	d	71.	a	111.	b
32.	a	72.	b	112.	a
33.	d	73.	d	113.	С
34.	b	74.	b	114.	a
35.	С	75.	a	115.	b
36.	d	76.	С	116.	b
37.	b	77.	a	117.	d
38.	a	78.	b	118.	a
39.	a	79.	b	119.	a
40.	b	80.	d	120.	С