



Topic:- FN MSC S2

1) Koilonychia is a symptom observed in

[Question ID = 4628]

1. Rickets [Option ID = 18506]
2. Osteoporosis [Option ID = 18507]
3. Anaemia [Option ID = 18508]
4. Ariboflavinosis [Option ID = 18509]

Correct Answer :-

- Anaemia [Option ID = 18508]

2) Carageenan is used as

[Question ID = 4629]

1. (1) Thickener
[Option ID = 18510]
2. (2) Stabilizer
[Option ID = 18511]
3. (3) Both (1) and (2)
[Option ID = 18512]
4. (4) None of these
[Option ID = 18513]

Correct Answer :-

- (3) Both (1) and (2)
[Option ID = 18512]

3) A pentose sugar is

[Question ID = 4630]

1. Ribulose [Option ID = 18514]
2. Amylose [Option ID = 18515]
3. Fructose [Option ID = 18516]
4. Erythrose [Option ID = 18517]

Correct Answer :-

- Ribulose [Option ID = 18514]

4) Triglycerides which are liquid at room temperature are often referred as

[Question ID = 4631]

1. Fat [Option ID = 18518]
2. Oil [Option ID = 18519]
3. Steroids [Option ID = 18520]
4. Waxes [Option ID = 18521]

Correct Answer :-

- Oil [Option ID = 18519]

5) Phytates present in cereals decrease the absorption of

[Question ID = 4632]

1. Iron [Option ID = 18522]
2. Copper [Option ID = 18523]
3. Zinc [Option ID = 18524]
4. Manganese [Option ID = 18525]

Correct Answer :-

- Iron [Option ID = 18522]

6) Skimmed milk is an example of

[Question ID = 4633]

1. Sol [Option ID = 18526]
2. Foam [Option ID = 18527]
3. Emulsion [Option ID = 18528]
4. Smoke [Option ID = 18529]

Correct Answer :-



[Question ID = 4634]

1. 18.5 - 24.9 kg/m² [Option ID = 18530]
2. 18.5 - 21.9 kg/m² [Option ID = 18531]
3. 18 - 23 kg/m² [Option ID = 18532]
4. 18 - 25 kg/m² [Option ID = 18533]

Correct Answer :-

- 18.5 - 24.9 kg/m² [Option ID = 18530]

8) Intake of dietary fibre is encouraged in

[Question ID = 4635]

1. Constipation
[Option ID = 18534]
2. Diabetes
[Option ID = 18535]
3. Metabolic syndrome
[Option ID = 18536]
4. All of these
[Option ID = 18537]

Correct Answer :-

- All of these

[Option ID = 18537]

9) The allosteric inhibitor of an enzyme

[Question ID = 4636]

1. Activates the enzyme by binding to the allosteric site [Option ID = 18538]
2. Binds to the active site [Option ID = 18539]
3. Participates in feedback regulation [Option ID = 18540]
4. Denatures the enzyme [Option ID = 18541]

Correct Answer :-

- Participates in feedback regulation [Option ID = 18540]

10) An enzyme lacking its cofactor is called

[Question ID = 4637]

1. Apoenzyme
[Option ID = 18542]
2. Holoenzyme
[Option ID = 18543]
3. Prosthetic group
[Option ID = 18544]
4. None of these
[Option ID = 18545]

Correct Answer :-

- Apoenzyme

[Option ID = 18542]

11) Which one of the following statements concerning glycolysis is correct?

[Question ID = 4638]

1. The presence of oxygen is required for conversion of glucose to lactate [Option ID = 18546]
2. The regulated reactions are also the irreversible reactions [Option ID = 18547]
3. Glucokinase does not play any role in hepatic glucose metabolism [Option ID = 18548]
4. Conversion of glucose to lactate yields net production of two ATP and two NADH molecules [Option ID = 18549]

Correct Answer :-

- The regulated reactions are also the irreversible reactions [Option ID = 18547]

12) Complete destruction of microorganisms is achieved when exposed to

[Question ID = 4639]

1. 151°C wet heat for 2 seconds



3. 121°C wet heat for 15 min

[Option ID = 18552]

4. 121°C wet heat for 10 min

[Option ID = 18553]

Correct Answer :-

- 121°C wet heat for 15 min

[Option ID = 18552]

13) β -carotene in the body is converted into retinol in

[Question ID = 4640]

1. Liver [Option ID = 18554]
2. Pancreas [Option ID = 18555]
3. Gall bladder [Option ID = 18556]
4. Intestine [Option ID = 18557]

Correct Answer :-

- Liver [Option ID = 18554]

14) Heat sensitive liquid is commonly concentrated at low temperature using

[Question ID = 4641]

1. Kettle evaporators [Option ID = 18558]
2. Film evaporators [Option ID = 18559]
3. Flash evaporators [Option ID = 18560]
4. Vacuum evaporators [Option ID = 18561]

Correct Answer :-

- Vacuum evaporators [Option ID = 18561]

15) Principal substance present in garlic is

[Question ID = 4642]

1. Gingerol [Option ID = 18562]
2. Aldehyde-cumino [Option ID = 18563]
3. Allicin [Option ID = 18564]
4. Eugenol [Option ID = 18565]

Correct Answer :-

- Allicin [Option ID = 18564]

16) Water activity acts as

[Question ID = 4643]

1. An intrinsic factor
[Option ID = 18566]
2. A processing factor
[Option ID = 18567]
3. A growth factor
[Option ID = 18568]
4. All of these
[Option ID = 18569]

Correct Answer :-

- All of these

[Option ID = 18569]

17) Dysphagia is a symptom that means

[Question ID = 4644]

1. Loss of appetite [Option ID = 18570]
2. Excessive leanness [Option ID = 18571]
3. Fatty diarrhoea [Option ID = 18572]
4. Difficulty in swallowing [Option ID = 18573]

Correct Answer :-

- Difficulty in swallowing [Option ID = 18573]

18) Which of the following statement is not true for antioxidants

[Question ID = 4645]



Correct Answer :-

- Antioxidants are free radicals that causes cell damage [Option ID = 18576]

19) Firm gel must contain

[Question ID = 4646]

1. High amount of amylose [Option ID = 18578]
2. High amount of amylopectin [Option ID = 18579]
3. Less amount of amylose [Option ID = 18580]
4. Less amount of amylopectin [Option ID = 18581]

Correct Answer :-

- High amount of amylose [Option ID = 18578]

20) Assertion: Enzymes are biocatalysts that accelerate rate of reaction.

Reason: Enzymes lower the activation energy of a reaction

[Question ID = 4647]

1. Assertion is correct but reason is incorrect [Option ID = 18582]
2. Assertion and reason both are correct [Option ID = 18583]
3. Assertion is incorrect and reason is correct [Option ID = 18584]
4. Assertion and reason both are incorrect [Option ID = 18585]

Correct Answer :-

- Assertion and reason both are correct [Option ID = 18583]

21) The general formula for monosaccharides is

[Question ID = 4648]

1. $C_nH_{2n}O_n$ [Option ID = 18586]
2. $C_{2n}H_nO_n$ [Option ID = 18587]
3. $C_nH_2O_{2n}$ [Option ID = 18588]
4. $CH_{2n}O_n$ [Option ID = 18589]

Correct Answer :-

- $C_nH_{2n}O_n$ [Option ID = 18586]

22) Ketosis occurs due to

[Question ID = 4649]

1. Increased proteolysis [Option ID = 18590]
2. Increased lipolysis [Option ID = 18591]
3. Decreased proteolysis [Option ID = 18592]
4. Decreased lipolysis [Option ID = 18593]

Correct Answer :-

- Increased lipolysis [Option ID = 18591]

23) Gluten-free diet is given to individuals suffering from which of the following diseases?

[Question ID = 4650]

1. Alzheimer's disease [Option ID = 18594]
2. Parkinson's Disease [Option ID = 18595]
3. Celiac disease [Option ID = 18596]
4. Irritable Bowel Disease [Option ID = 18597]

Correct Answer :-

- Celiac disease [Option ID = 18596]

24) What does the protein content of enteric formulas range between?

[Question ID = 4651]

1. 0 - 12% of total energy [Option ID = 18598]
2. 4 - 32% of total energy [Option ID = 18599]
3. 6 - 42% of total energy [Option ID = 18600]
4. 8 - 62% of total energy [Option ID = 18601]



25) Assertion: Essential fatty acids linoleic acid and arachidonic acid help in reduction of CO_2 .

Reason: Essential fatty acids can be synthesized within the body and are not necessary to be taken in the diet.

[Question ID = 4652]

1. Assertion is correct but reason is incorrect

[Option ID = 18602]

2. Assertion and reason both are correct

[Option ID = 18603]

3. Assertion is incorrect but reason is correct

[Option ID = 18604]

4. Assertion and reason both are incorrect

[Option ID = 18605]

Correct Answer :-

• Assertion is correct but reason is incorrect

[Option ID = 18602]

26) If the dispersed phase is gas and the continuous phase is liquid, the dispersion will be known as

[Question ID = 4653]

1. Sol [Option ID = 18606]

2. Emulsion [Option ID = 18607]

3. Foam [Option ID = 18608]

4. Aerosol [Option ID = 18609]

Correct Answer :-

• Foam [Option ID = 18608]

27) Fermentation by yeasts is favoured at a pH of

[Question ID = 4654]

1. 3.2 - 4.5 [Option ID = 18610]

2. 4 - 4.5 [Option ID = 18611]

3. 3.8 - 4.3 [Option ID = 18612]

4. 2.5 - 3.2 [Option ID = 18613]

Correct Answer :-

• 4 - 4.5 [Option ID = 18611]

28) Sugars in dry condition or their syrups, when heated, undergo a number of reactions, leading to the formation of unsaturated polymers with brown colour. This process is known as

[Question ID = 4655]

1. Maillard Reaction

[Option ID = 18614]

2. Caramelization

[Option ID = 18615]

3. Putrefaction

[Option ID = 18616]

4. None of these

[Option ID = 18617]

Correct Answer :-

• Caramelization

[Option ID = 18615]

29) Triglycerides from animal sources contain a higher percentage of

[Question ID = 4656]

1. Saturated fatty acids

[Option ID = 18618]

2. Monounsaturated fatty acids

[Option ID = 18619]

3. Polyunsaturated fatty acids

[Option ID = 18620]



Correct Answer :-

- 1. Saturated fatty acids

[Option ID = 18618]

30) For a consumer panel, a group of _____ members is considered the minimum.

[Question ID = 4657]

1. Not less than 50 [Option ID = 18622]
2. Not less than 75 [Option ID = 18623]
3. Not less than 100 [Option ID = 18624]
4. Not less than 150 [Option ID = 18625]

Correct Answer :-

- Not less than 100 [Option ID = 18624]

31) In glucose the orientation of the -H and -OH groups around the carbon atom 5 adjacent to the terminal primary alcohol carbon determines

[Question ID = 4658]

1. D or L series
[Option ID = 18626]
2. Dextro or levorotatory
[Option ID = 18627]
3. α and β anomers
[Option ID = 18628]
4. Epimers
[Option ID = 18629]

Correct Answer :-

- D or L series

[Option ID = 18626]

32) Under anaerobic conditions the glycolysis of one mole of glucose yields _____ mole(s) of ATP.

[Question ID = 4659]

1. One [Option ID = 18630]
2. Two [Option ID = 18631]
3. Eight [Option ID = 18632]
4. Thirty [Option ID = 18633]

Correct Answer :-

- Two [Option ID = 18631]

33) Pyruvate dehydrogenase complex and α -ketoglutarate dehydrogenase complex enzymes require the following for their oxidative decarboxylation reactions

[Question ID = 4660]

1. CoASH and Lipoic acid
[Option ID = 18634]
2. NAD⁺ and FAD
[Option ID = 18635]
3. CoASH and TPP
[Option ID = 18636]
4. CoASH, TPP, NAD⁺, FAD, Lipoate
[Option ID = 18637]

Correct Answer :-

- CoASH, TPP, NAD⁺, FAD, Lipoate

[Option ID = 18637]

34) During glycolysis the following enzyme acts on Fructose 1,6-bisphosphate

[Question ID = 4661]

1. ~~Enolase~~ [Option ID = 18638]
2. Phosphofructokinase [Option ID = 18639]
3. Aldolase [Option ID = 18640]
4. Phosphoglycerate mutase [Option ID = 18641]



35) Tricarboxylic acid cycle to be continuous requires the regeneration of

[Question ID = 4662]

1. Pyruvic acid [Option ID = 18642]
2. Oxaloacetic acid [Option ID = 18643]
3. α -oxoglutaric acid [Option ID = 18644]
4. Malic acid [Option ID = 18645]

Correct Answer :-

- Oxaloacetic acid [Option ID = 18643]

36) The magnitude of stimulus at which a transition occurs from no sensation to sensation is

[Question ID = 4663]

1. Recognition threshold
[Option ID = 18646]
2. Stimulus threshold
[Option ID = 18647]
3. Terminal threshold
[Option ID = 18648]
4. None of these
[Option ID = 18649]

Correct Answer :-

- Stimulus threshold
[Option ID = 18647]

37) Jam should not contain less than

[Question ID = 4664]

1. 70 percent soluble solids [Option ID = 18650]
2. 69.5 percent soluble solids [Option ID = 18651]
3. 68.5 percent soluble solids [Option ID = 18652]
4. 65.5 percent soluble solids [Option ID = 18653]

Correct Answer :-

- 68.5 percent soluble solids [Option ID = 18652]

38) "+F" logo stands for

[Question ID = 4665]

1. Organic Food [Option ID = 18654]
2. Fortified Food [Option ID = 18655]
3. Genetically Modified Food [Option ID = 18656]
4. Vegan Food [Option ID = 18657]

Correct Answer :-

- Fortified Food [Option ID = 18655]

39) The outermost layer of hen's egg is

[Question ID = 4666]

1. Shell [Option ID = 18658]
2. Bloom [Option ID = 18659]
3. Vitelline Membrane [Option ID = 18660]
4. Chalazae [Option ID = 18661]

Correct Answer :-

- Bloom [Option ID = 18659]

40) In a cereal grain, the layer of cells located just under the bran is

[Question ID = 4667]

1. Scutellum [Option ID = 18662]
2. Endosperm [Option ID = 18663]
3. Aleurone layer [Option ID = 18664]
4. Germ [Option ID = 18665]

Correct Answer :-

- Aleurone layer [Option ID = 18664]

41) Formula for estimation of nitrogen content of dietary proteins is

[Question ID = 4668]



Correct Answer :-

- Nitrogen (g) = Protein (g)/6.25 [Option ID = 18669]

42) Which of the following conditions would be present if an individual is suffering from metabolic syndrome?

[Question ID = 4669]

1. High levels of HDL, low levels of serum triglyceride, low blood pressure, underweight [Option ID = 18670]
2. Dyslipidemia, elevated blood pressure, impaired glucose tolerance, central obesity [Option ID = 18671]
3. High levels of HDL, low levels of serum triglyceride, impaired glucose tolerance, central obesity [Option ID = 18672]
4. High levels of serum triglycerides and HDL, low blood pressure, underweight [Option ID = 18673]

Correct Answer :-

- Dyslipidemia, elevated blood pressure, impaired glucose tolerance, central obesity [Option ID = 18671]

43) Substrate level phosphorylation in TCA cycle is in the step of

[Question ID = 4670]

1. Isocitrate dehydrogenase [Option ID = 18674]
2. Malate dehydrogenase [Option ID = 18675]
3. Phosphoglycerate kinase [Option ID = 18676]
4. Succinate thiokinase [Option ID = 18677]

Correct Answer :-

- Succinate thiokinase [Option ID = 18677]

44) The committed step of glycolysis is catalysed by

[Question ID = 4671]

1. Phosphofructokinase-I [Option ID = 18678]
2. Pyruvate kinase [Option ID = 18679]
3. Hexokinase [Option ID = 18680]
4. Glucokinase [Option ID = 18681]

Correct Answer :-

- Phosphofructokinase-I [Option ID = 18678]

45) Which one of the following statements concerning the peptide shown below is correct?

Gly-Cys-Glu-Ser-Asp-Cys-Val-Leu

[Question ID = 4672]

1. The peptide is able to form an internal disulfide bond [Option ID = 18682]
2. The peptide contains majority of acidic amino acids [Option ID = 18683]
3. The peptide contains an amino acid with secondary amino group [Option ID = 18684]
4. The peptide contains glutamine [Option ID = 18685]

Correct Answer :-

- The peptide is able to form an internal disulfide bond [Option ID = 18682]

46) A peptide bond

[Question ID = 4673]

1. Is ionized at physiological pH [Option ID = 18686]
2. Is stable to heating in strong acids [Option ID = 18687]
3. Is cleaved by agents like organic solvents and high concentrations of urea [Option ID = 18688]
4. Occurs mostly in the trans configuration [Option ID = 18689]

Correct Answer :-

- Occurs mostly in the trans configuration [Option ID = 18689]

47) The method in which nutrient requirements for different functions are assessed individually and then added to arrive at the total daily requirement is called

[Question ID = 4674]

1. Factorial Approach [Option ID = 18690]
2. Balance Studies [Option ID = 18691]
3. Depletion-Repletion Studies [Option ID = 18692]
4. Nutrient turnover Studies [Option ID = 18693]

Correct Answer :-

- Factorial Approach [Option ID = 18690]

48) Enlargement in cell size is referred to as

[Question ID = 4675]

1. Hyperplasia [Option ID = 18694]
2. Hypertrophy [Option ID = 18695]



- Hypertrophy [Option ID = 18695]

49) Idiosyncratic reactions are

[Question ID = 4676]

1. (1) Reactions associated with release of histamine and other mediators

[Option ID = 18698]

2. (2) Adverse reactions to foods that occur through unknown mechanism

[Option ID = 18699]

3. (3) Both (1) and (2)

[Option ID = 18700]

4. (4) None of these

[Option ID = 18701]

Correct Answer :-

- (2) Adverse reactions to foods that occur through unknown mechanism

[Option ID = 18699]

50) Which of the following are liver function tests?

[Question ID = 4677]

1. Serum bilirubin

[Option ID = 18702]

2. Alanine Aminotransferases

[Option ID = 18703]

3. Serum Globulin

[Option ID = 18704]

4. All of these

[Option ID = 18705]

Correct Answer :-

- All of these

[Option ID = 18705]

51) According to JNC-7 classification of high blood pressure (Stage 1), the cut-off for systolic and diastolic blood pressure is

[Question ID = 4678]

1. SBP<120, DBP<80

[Option ID = 18706]

2. SBP=120-139 or DBP>80

[Option ID = 18707]

3. SBP=120-139 or DBP=80-89

[Option ID = 18708]

4. SBP=140-159 or DBP=90-99

[Option ID = 18709]

Correct Answer :-

- SBP=140-159 or DBP=90-99

[Option ID = 18709]

52) In which of the following non-probability sampling techniques does the researcher ask the study participants to identify other potential participants?

[Question ID = 4679]

1. Snowball [Option ID = 18710]

2. Convenience [Option ID = 18711]

3. Purposive [Option ID = 18712]

4. Quota [Option ID = 18713]

Correct Answer :-

- Snowball [Option ID = 18710]

53) What is the normal pH of blood?



[Option ID = 18714]

2. 7.20 - 7.30

[Option ID = 18715]

3. 7.35 - 7.45

[Option ID = 18716]

4. 7.50 - 7.55

[Option ID = 18717]

Correct Answer :-

- 7.35 - 7.45

[Option ID = 18716]

54) Sulphur containing amino acid is

[Question ID = 4681]

1. Methionine [Option ID = 18718]

2. Leucine [Option ID = 18719]

3. Valine [Option ID = 18720]

4. Asparagine [Option ID = 18721]

Correct Answer :-

- Methionine [Option ID = 18718]

55) Select the correct statement about secondary structure of proteins.

[Question ID = 4682]

1. The α -helix is composed of more than one polypeptide chain.

[Option ID = 18722]

2. β -Sheets are present in the antiparallel form only.

[Option ID = 18723]

3. β -bends often contain proline.

[Option ID = 18724]

4. The α -helix is stabilized primarily by ionic interactions between the side chains of amino acids.

[Option ID = 18725]

Correct Answer :-

- β -bends often contain proline.

[Option ID = 18724]

56) The following enzyme of urea cycle is present in cytosol

[Question ID = 4683]

1. Argininosuccinic acid synthetase

[Option ID = 18726]

2. Argininosuccinase

[Option ID = 18727]

3. Arginase

[Option ID = 18728]

4. All of these

[Option ID = 18729]

Correct Answer :-

- All of these

[Option ID = 18729]

57) The transaminase activity needs the coenzyme

[Question ID = 4684]

1. ATP [Option ID = 18730]

2. Pyridoxal phosphate [Option ID = 18731]

3. Niacin [Option ID = 18732]

4. Riboflavin [Option ID = 18733]

Correct Answer :-

- Pyridoxal phosphate [Option ID = 18731]

Example of saturated fatty acid is

[Question ID = 4685]

1. Palmitic acid [Option ID = 18734]

2. Oleic acid [Option ID = 18735]

3. Linoleic acid [Option ID = 18736]

4. Elaidic acid [Option ID = 18737]

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Correct Answer :-

- Palmitic acid [Option ID = 18734]

59) The number of double bonds in arachidonic acid is

[Question ID = 4686]

1. One [Option ID = 18738]

2. Two [Option ID = 18739]

3. Four [Option ID = 18740]

4. Six [Option ID = 18741]

Correct Answer :-

- Four [Option ID = 18740]

60) Instrument used for texture evaluation

[Question ID = 4687]

1. Baker's Jellimeter

[Option ID = 18742]

2. Bostwick Consistometer

[Option ID = 18743]

3. Barbender Farinograph

[Option ID = 18744]

4. All of these

[Option ID = 18745]

Correct Answer :-

- All of these

[Option ID = 18745]

61) Name the SNF resource book for School

[Question ID = 4688]

1. Pink Book [Option ID = 18746]

2. Yellow Book [Option ID = 18747]

3. Orange Book [Option ID = 18748]

4. Green Book [Option ID = 18749]

Correct Answer :-

- Yellow Book [Option ID = 18747]

62) Symbol for irradiated foods is called

[Question ID = 4689]

1. Agmark [Option ID = 18750]

2. Silk mark [Option ID = 18751]

3. Gamma [Option ID = 18752]

4. Radura [Option ID = 18753]

Correct Answer :-

- Radura [Option ID = 18753]

63) An emulsifier added to the system would _____ the interfacial tension.

[Question ID = 4690]

1. Reduce

[Option ID = 18754]

2. Increase

[Option ID = 18755]

3. Break

[Option ID = 18756]

4. None of these

[Option ID = 18757]

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Correct Answer :-



64) Polyhydroxy alcohols are used as

[Question ID = 4691]

1. Anticaking agents [Option ID = 18758]
2. Humectants [Option ID = 18759]
3. Oxidizing agents [Option ID = 18760]
4. Maturing agent [Option ID = 18761]

Correct Answer :-

- Humectants [Option ID = 18759]

65) The fat content of double toned milk should be

[Question ID = 4692]

1. 0.5% [Option ID = 18762]
2. 3.5% [Option ID = 18763]
3. 1.5% [Option ID = 18764]
4. 2.5% [Option ID = 18765]

Correct Answer :-

- 1.5% [Option ID = 18764]

66) β -Oxidation of fatty acids requires all the following coenzymes except

[Question ID = 4693]

1. CoA [Option ID = 18766]
2. FAD [Option ID = 18767]
3. NAD [Option ID = 18768]
4. NADP [Option ID = 18769]

Correct Answer :-

- NADP [Option ID = 18769]

67) Ketone bodies are synthesized in

[Question ID = 4694]

1. Adipose tissue [Option ID = 18770]
2. Liver [Option ID = 18771]
3. Muscles [Option ID = 18772]
4. Brain [Option ID = 18773]

Correct Answer :-

- Liver [Option ID = 18771]

68) The integrator between urea and TCA cycle is

[Question ID = 4695]

1. Fumarate [Option ID = 18774]
2. Malate [Option ID = 18775]
3. Pyruvate [Option ID = 18776]
4. Citrate [Option ID = 18777]

Correct Answer :-

- Fumarate [Option ID = 18774]

69) Conversion of pyruvic acid to acetyl CoA takes place in the

[Question ID = 4696]

1. Mitochondria [Option ID = 18778]
2. Cytosol [Option ID = 18779]
3. Ribosomes [Option ID = 18780]
4. Nucleus [Option ID = 18781]

Correct Answer :-

- Mitochondria [Option ID = 18778]

70) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Citric acid cycle is only a catabolic pathway.

Reason R : This is because it reduces acetyl groups to carbon-dioxide.

In light of the above statements, choose the correct answer from the options given below

[Question ID = 4697]

1. Assertion is correct but reason is incorrect [Option ID = 18782]
2. Assertion is incorrect but reason is correct [Option ID = 18783]
3. Both assertion and reason are correct [Option ID = 18784]
4. Both assertion and reason are incorrect [Option ID = 18785]



71) Vitamin B1 coenzyme (TPP) is involved in

[Question ID = 4698]

1. Oxidative decarboxylation [Option ID = 18786]
2. Hydroxylation [Option ID = 18787]
3. Transamination [Option ID = 18788]
4. Carboxylation [Option ID = 18789]

Correct Answer :-

- Oxidative decarboxylation [Option ID = 18786]

72) Deficiency of Vitamin A causes

[Question ID = 4699]

1. Xerophthalmia [Option ID = 18790]
2. Hypoproteinaemia [Option ID = 18791]
3. Megaloblastic anemia [Option ID = 18792]
4. Pernicious anemia [Option ID = 18793]

Correct Answer :-

- Xerophthalmia [Option ID = 18790]

73) At the age of one year, a normal infant shows the following increase in body size

[Question ID = 4700]

1. Birth weight is doubled and height increases by 25cm [Option ID = 18794]
2. Birth weight is doubled and height increases by 50cm [Option ID = 18795]
3. Birth weight is tripled and height increases by 50cm [Option ID = 18796]
4. Birth weight is tripled and height increases by 25cm [Option ID = 18797]

Correct Answer :-

- Birth weight is tripled and height increases by 25cm [Option ID = 18797]

74) Weight of a reference Indian adult woman is taken as

[Question ID = 4701]

1. 60 kg [Option ID = 18798]
2. 65 kg [Option ID = 18799]
3. 50 kg [Option ID = 18800]
4. 55 kg [Option ID = 18801]

Correct Answer :-

- 55 kg [Option ID = 18801]

75) Which of the following has the best chemical score

[Question ID = 4702]

1. Wheat [Option ID = 18802]
2. Egg [Option ID = 18803]
3. Milk [Option ID = 18804]
4. Soyabean [Option ID = 18805]

Correct Answer :-

- Egg [Option ID = 18803]

76) Niacin is also derived from which of the following essential amino acids?

[Question ID = 4703]

1. Tryptophan [Option ID = 18806]
2. Leucine [Option ID = 18807]
3. Isoleucine [Option ID = 18808]
4. Lysine [Option ID = 18809]

Correct Answer :-

- Tryptophan [Option ID = 18806]

77) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Food intolerance is an immune system response.

Reason R : An allergen is a molecule that elicits an immune response.

In light of the above statements, choose the correct answer from the options given below

[Question ID = 4704]

1. Assertion is correct but reason is incorrect [Option ID = 18810]
2. Assertion is incorrect but reason is correct [Option ID = 18811]
3. Both assertion and reason are correct [Option ID = 18812]



78) Which of the following changes in body composition are associated with ageing in older adults?

- A. Decreased bone mass
- B. Increased muscle mass
- C. Increased body fat
- D. Decreased BMR

Choose the correct answer from the options given below:

[Question ID = 4705]

- 1. A, B and C only [Option ID = 18814]
- 2. A, B and D only [Option ID = 18815]
- 3. B, C and D only [Option ID = 18816]
- 4. A, C and D only [Option ID = 18817]

Correct Answer :-

- A, C and D only [Option ID = 18817]

79) Which of the following is not an anthropometric measurement?

[Question ID = 4706]

- 1. Skinfold thickness [Option ID = 18818]
- 2. Waist circumference [Option ID = 18819]
- 3. Blood pressure [Option ID = 18820]
- 4. Mid upper arm circumference [Option ID = 18821]

Correct Answer :-

- Blood pressure [Option ID = 18820]

80) Which of the following is a direct short-term intervention given by our National Nutrition Policy 1993?

[Question ID = 4707]

- 1. Nutrition surveillance [Option ID = 18822]
- 2. Ensuring food security [Option ID = 18823]
- 3. Fortification of essential foods [Option ID = 18824]
- 4. Prevention of food adulteration [Option ID = 18825]

Correct Answer :-

- Fortification of essential foods [Option ID = 18824]

81) Characteristic features of Cretinism do not include

[Question ID = 4708]

- 1. Mental retardation [Option ID = 18826]
- 2. Deaf Mutism [Option ID = 18827]
- 3. Spastic paralysis [Option ID = 18828]
- 4. Oedema [Option ID = 18829]

Correct Answer :-

- Oedema [Option ID = 18829]

82) During fever, BMR of an individual

[Question ID = 4709]

- 1. Increases [Option ID = 18830]
- 2. Decreases [Option ID = 18831]
- 3. Remains unaltered [Option ID = 18832]
- 4. Becomes zero [Option ID = 18833]

Correct Answer :-

- Increases [Option ID = 18830]

83) Hypothesis refers to

[Question ID = 4710]

- 1. The outcome of a study
[Option ID = 18834]
- 2. A conclusion drawn from a study
[Option ID = 18835]
- 3. A form of bias in the study
[Option ID = 18836]
- 4. A tentative statement about the relationship among variables in the study



- A tentative statement about the relationship among variables in a study is called a hypothesis. [Option ID = 18837]

84) Energy cost of an individual activity per minute to the energy cost of basal metabolic rate per minute is called [Question ID = 4711]

1. SDA [Option ID = 18838]
2. PAR [Option ID = 18839]
3. BMR [Option ID = 18840]
4. PAL [Option ID = 18841]

Correct Answer :-

- PAR [Option ID = 18839]

85) Propionyl CoA formed on oxidation of fatty acids having an odd number of carbon atoms is converted into [Question ID = 4712]

1. Acetyl CoA [Option ID = 18842]
2. Butyryl CoA [Option ID = 18843]
3. D-methylmalonyl CoA [Option ID = 18844]
4. Acetoacetyl CoA [Option ID = 18845]

Correct Answer :-

- D-methylmalonyl CoA [Option ID = 18844]

86) Which of the following does not have phosphorous? [Question ID = 4713]

1. Riboflavin [Option ID = 18846]
2. NAD⁺ [Option ID = 18847]
3. TPP [Option ID = 18848]
4. CoASH [Option ID = 18849]

Correct Answer :-

- Riboflavin [Option ID = 18846]

87) A kinase is an enzyme that [Question ID = 4714]

1. Removes phosphate groups of substrate [Option ID = 18850]
2. Adds a phosphate group to the substrate [Option ID = 18851]
3. Uses NADH to change the oxidation state of the substrate [Option ID = 18852]
4. Removes water from a double bond [Option ID = 18853]

Correct Answer :-

- Adds a phosphate group to the substrate [Option ID = 18851]

88) During each cycle of β -oxidation [Question ID = 4715]

1. One carbon atom is removed from the carboxyl end of the fatty acid [Option ID = 18854]
2. One carbon atom is removed from the methyl end of the fatty acid [Option ID = 18855]
3. Two carbon atoms are removed from the carboxyl end of the fatty acid [Option ID = 18856]
4. Two carbon atoms are removed from the methyl end of the fatty acid [Option ID = 18857]

Correct Answer :-

- Two carbon atoms are removed from the carboxyl end of the fatty acid [Option ID = 18856]

89) What is FIFO? [Question ID = 4716]

1. First In First Out [Option ID = 18858]
2. First Information For Organization [Option ID = 18859]
3. Figure In Figure Out [Option ID = 18860]
4. First Index First Observed [Option ID = 18861]

Correct Answer :-

- First In First Out [Option ID = 18858]

90) HACCP is directed towards ensuring [Question ID = 4717]

1. Food Safety [Option ID = 18862]
2. Food Quality [Option ID = 18863]
3. Food Security [Option ID = 18864]
4. Food Sustainability [Option ID = 18865]

Correct Answer :-



[Question ID = 4718]

1. Grinding

[Option ID = 18866]

2. Use of proteolytic enzymes

[Option ID = 18867]

3. Cold room storage

[Option ID = 18868]

4. All of these

[Option ID = 18869]

Correct Answer :-

- All of these

[Option ID = 18869]

92) Casal's necklace is a symptom of deficiency of

[Question ID = 4719]

1. Thiamine [Option ID = 18870]

2. Niacin [Option ID = 18871]

3. Vitamin B6 [Option ID = 18872]

4. Vitamin B12 [Option ID = 18873]

Correct Answer :-

- Niacin [Option ID = 18871]

93) Following are the features of a good research except

[Question ID = 4720]

1. Data are collected systematically [Option ID = 18874]

2. The research purpose is clearly defined [Option ID = 18875]

3. The research design is ambiguously planned [Option ID = 18876]

4. Findings are presented systematically [Option ID = 18877]

Correct Answer :-

- The research design is ambiguously planned [Option ID = 18876]

94) Which of the following are the modifiable risk factors in cardiovascular disease?

[Question ID = 4721]

1. Hypertension, Physical inactivity, Obesity, Atherogenic diet [Option ID = 18878]

2. Hypertension, Physical inactivity, Gender, Age [Option ID = 18879]

3. Obesity, Atherogenic diet, Heredity, Hypertension [Option ID = 18880]

4. Obesity, Gender, Age, Heredity [Option ID = 18881]

Correct Answer :-

- Hypertension, Physical inactivity, Obesity, Atherogenic diet [Option ID = 18878]

95) CCP stands for

[Question ID = 4722]

1. Critical Count Point [Option ID = 18882]

2. Critical Control Point [Option ID = 18883]

3. Crisis Count Point [Option ID = 18884]

4. Crisis Control Point [Option ID = 18885]

Correct Answer :-

- Critical Control Point [Option ID = 18883]

96) Gluconeogenesis is inhibited in presence of

[Question ID = 4723]

1. Glucagon [Option ID = 18886]

2. Insulin [Option ID = 18887]

3. Glucocorticoids [Option ID = 18888]

4. Adrenaline [Option ID = 18889]

Correct Answer :-

- Insulin [Option ID = 18887]

97) Fluorosis is characterized by

[Question ID = 4724]

1. Cardiomyopathy [Option ID = 18890]

2. Mottling of teeth [Option ID = 18891]



3. All of the above [Option ID = 188921]
4. None of the above [Option ID = 188922]

Correct Answer :-

- Mottling of teeth [Option ID = 18891]

98) Freezing point of milk is

[Question ID = 4725]

1. -0.55°C

[Option ID = 18894]

2. $+0.55^{\circ}\text{C}$

[Option ID = 18895]

3. -5.5°C

[Option ID = 18896]

4. $+5.5^{\circ}\text{C}$

[Option ID = 18897]

Correct Answer :-

- -0.55°C

[Option ID = 18894]

99) Braising is a combination of

[Question ID = 4726]

1. Roasting and Stewing [Option ID = 18898]
2. Grilling and Stewing [Option ID = 18899]
3. Pressure cooking and Roasting [Option ID = 18900]
4. Boiling and Simmering [Option ID = 18901]

Correct Answer :-

- Roasting and Stewing [Option ID = 18898]

100) Which one of the following is characteristic of low insulin levels?

[Question ID = 4727]

1. Increased glycogen synthesis [Option ID = 18902]
2. Decreased gluconeogenesis [Option ID = 18903]
3. Decreased glycogenolysis [Option ID = 18904]
4. Increased formation of 3-hydroxybutyrate [Option ID = 18905]

Correct Answer :-

- Increased formation of 3-hydroxybutyrate [Option ID = 18905]

