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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]

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**Correct Answer :-**

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[Option ID = 18526]

7) Normal BMI range for adults according to WHO is

[Question ID = 4634]

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

Correct Answer :-

- 18.5 - 24.9 kg/$m^2$ [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

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[Question ID = 4639]

1. 151ºC wet heat for 2 seconds

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[Option ID = 18550]

2. [illegible] wet heat for 20 seconds

[Option ID = 18551]

3. 121ºC wet heat for 15 min

[Option ID = 18552]

4. 121ºC wet heat for 10 min

[Option ID = 18553]

**Correct Answer :-**

- 121ºC wet heat for 15 min

[Option ID = 18552]

**13) ß-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]

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

**[Question ID = 4645]**

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1. ...xidants are found in colored fruits and vegetables [Option ID = 18574]
2. ...xidants cause oxidation enhancing reactive oxygen species [Option ID = 18575]
3. ...xidants are free radicals that causes cell damage [Option ID = 18576]
4. Vitamin A, C and E are examples of natural antioxidants [Option ID = 18577]

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**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 monosccharides 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]

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Correct Answer :-

2% of total energy [Option ID = 18599]

**25) Assertion: Essential fatty acids linoleic acid and linolenic acid help in reduction of CVDs.**

**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. 1. Saturated fatty acids

   [Option ID = 18618]
2. 2. Monounsaturated fatty acids

   [Option ID = 18619]
3. 3. Polyunsaturated fatty acids

   [Option ID = 18620]

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4. th 2 and 3
on ID = 18621]

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 ß 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]

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Correct Answer :-
- ase [Option ID = 18644]

**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. Challazae [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]

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**41) Formula for estimation of nitrogen content of dietary protein is**
**[Question ID = 4668]**

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1. ge (g) = Protein (g)/2.65 [Option ID = 18666]
2. ge (g) = Protein (g)/2.2 [Option ID = 18667]
3. gen (g) = Protein (g)/3.35 [Option ID = 18668]
4. Nitrogen (g) = Protein (g)/6.25 [Option ID = 18669]

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**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]**

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

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3. ...raesthesia [Option ID = 18690]
4. ...rination [Option ID = 18691]

Correct Answer :-

- 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]

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**53) What is the normal pH of blood?**

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[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. ß-Sheets are present in the antiparallel form only.

[Option ID = 18723]

3. ß-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 :-**

- ß-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]

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**Correct Answer :-**

- Pyridoxal phosphate [Option ID = 18731]

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n example of a saturated fatty acid is
ion 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]

**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 Jelmeter

   [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 :-**

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**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) ß-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 assesrtion and reason are incorrect [Option ID = 18785]

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Answer :-
assesrtion and reason are incorrect [Option ID = 18785]

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**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. Hypoprothrombinemia [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]

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4. Assertion and reason are incorrect [Option ID = 18813]

Answer :-

- Assertion is incorrect but reason is correct [Option ID = 18811]

**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

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[Option ID = 18837]

Answer :-

- A tentative statement about the relationship among variables in the study

[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 ß-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]

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Correct Answer :-

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Safety [Option ID = 18862]

**[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]**

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1. Cardiomyopathy [Option ID = 18890]
2. Mottling of teeth [Option ID = 18891]

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3. [illegible]al caries [Option ID = 18892]
4. [illegible]ci[illegible] [Option ID = 18893]

**Correct Answer :-**

- Mottling of teeth [Option ID = 18891]

**98) Freezing point of milk is**

**[Question ID = 4725]**

1. -0.55ºC

   [Option ID = 18894]
2. +0.55ºC

   [Option ID = 18895]
3. -5.5ºC

   [Option ID = 18896]
4. +5.5ºC

   [Option ID = 18897]

**Correct Answer :-**

- -0.55ºC

  [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]

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