DU MSc Food and Nutrition

Topic:- DU_J19_MSC_FN

1) Enzymes that catalyse the same reaction with different kinetic properties are known as [Question ID = 216]

- 1. Allosteric enzymes [Option ID = 862]
- 2. Isozymes [Option ID = 861]
- 3. Holoenzymes [Option ID = 864]
- 4. Coenzymes [Option ID = 863]

Correct Answer:-

Isozymes [Option ID = 861]

2) The integrator between urea and TCA cycle is [Question ID = 240]

- 1. Citrate [Option ID = 960]
- 2. Malate [Option ID = 958]
- 3. Pyruvate [Option ID = 959]
- 4. Fumarate [Option ID = 957]

Correct Answer:-

• Fumarate [Option ID = 957]

3) Which of the following microorganism is associated with the processing of canning:

[Question ID = 276]

- 1. Listeria monocytogenes [Option ID = 1102]
- 2. Clostridium botulinum [Option ID = 1104]
- 3. *Salmonella typhi* [Option ID = 1101]
- 4. Escherichia coli [Option ID = 1103]

Correct Answer:-

• Clostridium botulinum [Option ID = 1104]

4) Which of the following is NOT the part of the package services provided by ICDS

[Question ID = 227]

- 1. Medical referral services [Option ID = 908]
- 2. Periodic health check-ups [Option ID = 907]
- 3. Formal education [Option ID = 906]
- 4. Supplementary nutrition [Option ID = 905]

Correct Answer:-

• Formal education [Option ID = 906]

5) Which of the following is NOT an eating disorder

[Question ID = 226]

- 1. Anorexia nervosa [Option ID = 902]
- 2. Anxiety disorder [Option ID = 903]
- 3. Bulimia Nervosa [Option ID = 901]
- 4. Binge eating disorder [Option ID = 904]

Correct Answer:-

• Anxiety disorder [Option ID = 903]

6) Which of the following pair of hormones help in synthesis and ejection of milk after delivery?

[Question ID = 210]

- 1. Prolactin and oxytocin [Option ID = 840]
- 2. Oxytocin and FSH [Option ID = 837]
- 3. Progesterone and prolactin [Option ID = 839]
- 4. LH and FSH [Option ID = 838]

Correct Answer:-

Prolactin and oxytocin [Option ID = 840]

7) Which of the following disease associated with elderly causes trembling of arms, face, legs and poor muscle coordination

[Question ID = 252]

- 1. Parkinson's Disease [Option ID = 1007]
- 2. Alzheimer's Disease [Option ID = 1005]
- 3. Cachexia [Option ID = 1006]
- 4. Osteoporosis [Option ID = 1008]

Correct Answer:-

Parkinson's Disease [Option ID = 1007]

8) Which of the following is substitute of crystal violet in Gram's staining

[Question ID = 287]

- 1. Bromocresol blue [Option ID = 1147]
- 2. Safranin [Option ID = 1148]
- 3. Lactophenol cotton blue [Option ID = 1146]
- 4. Methylene blue [Option ID = 1145]

Correct Answer:-

• Methylene blue [Option ID = 1145]

9) Foam is a colloidal dispersion of [Question ID = 281]

- 1. Solid in liquid [Option ID = 1122]
- 2. Liquid in liquid [Option ID = 1121]
- 3. Liquid in solid [Option ID = 1123]
- 4. Gas in liquid [Option ID = 1124]

• Gas in liquid [Option ID = 1124]

10) Pasteurisation is a process by which: [Question ID = 275]

- 1. Fat is broken in to small particles [Option ID = 1099]
- 2. Milk is sweetened [Option ID = 1098]
- 3. Milk is condensed [Option ID = 1097]
- 4. Harmful bacteria are destroyed [Option ID = 1100]

Correct Answer:-

• Harmful bacteria are destroyed [Option ID = 1100]

11) The active principle present in turmeric is known as ____ [Question ID = 291]

- 1. Oleoresin [Option ID = 1163]
- 2. None [Option ID = 1164]
- 3. Crocerin [Option ID = 1161]
- 4. Curcumin [Option ID = 1162]

Correct Answer:-

Curcumin [Option ID = 1162]

12) Ketone bodies are synthesized from fatty acid oxidation products by which of the following organ? [Question ID = 258]

- 1. Intestine [Option ID = 1031]
- 2. Brain [Option ID = 1032]
- 3. Liver [Option ID = 1029]
- 4. Kidney [Option ID = 1030]

Correct Answer:-

• Liver [Option ID = 1029]

13) Carotenoids are bioactive compounds found in [Question ID = 236]

- 1. All [Option ID = 944]
- 2. Pumpkin [Option ID = 943]
- 3. Green leafy vegetables [Option ID = 941]
- 4. Mango [Option ID = 942]

Correct Answer:-

• All [Option ID = 944]

14) Application of food irradiation include:

[Question ID = 278]

- 1. Both sterilisation and inhibition of sprouting [Option ID = 1111]
- 2. Sterilisation [Option ID = 1109]
- 3. Inhibition of sprouting [Option ID = 1110]
- 4. None of the above [Option ID = 1112]

Correct Answer:-

• Both sterilisation and inhibition of sprouting [Option ID = 1111]

15) Bland diets are

- i. Free from mechanical, thermal and chemical irritants
- ii. Low in dietary fibre
- iii. Free from strongly flavoured vegetables and fruits
- iv. Free from stimulants and spices

Select which one is true

[Question ID = 301]

- 1. i [Option ID = 1201]
- 2. i , iv [Option ID = 1202]
- 3. i , ii , iii [Option ID = 1203]
- 4. i, ii, iii, iv [Option ID = 1204]

Correct Answer:-

• i, ii, iii, iv [Option ID = 1204]

16) The S.N.F. of double toned milk should be as follows: [Question ID = 293]

- 1. 9% [Option ID = 1169]
- 2. 5.20% [Option ID = 1172]
- 3. 6.50% [Option ID = 1171]
- 4. 7.20% [Option ID = 1170]

Correct Answer:-

• 9% [Option ID = 1169]

17) The conditions which are controlled during storage of fruits is/are [Question ID = 266]

- 1. Atmospheric gas [Option ID = 1063]
- Humidity [Option ID = 1062]
- Temperature [Option ID = 1061]
- 4. All of the above [Option ID = 1064]

Correct Answer:-

• All of the above [Option ID = 1064]

18) The homogenous mixtures in which one substance (solute) is dissolved in another (solvent) is called: [Question ID = 273]

- 1. Coarse dispersion [Option ID = 1092]
- 2. Colloidal dispersion [Option ID = 1090]
- 3. True Solution [Option ID = 1091]
- 4. Suspension [Option ID = 1089]

Correct Answer:-

True Solution [Option ID = 1091]

19) Tocopherol is an example of

[Question ID = 286]

- 1. Flavoring agent [Option ID = 1143]
- 2. Antioxidant [Option ID = 1142]
- 3. Anticaking agent [Option ID = 1141]

4. None of these [Option ID = 1144]

Correct Answer:-

• Antioxidant [Option ID = 1142]

20) Iron-containing oxygen storage protein is [Question ID = 234]

- 1. Myoglobin [Option ID = 934]
- 2. Oxyhaemoglobin [Option ID = 933]
- 3. Haemoglobin [Option ID = 935]
- 4. All of the above [Option ID = 936]

Correct Answer:-

• Myoglobin [Option ID = 934]

21) Polyunsaturated omega-6 fatty acid arachidonic acid can be represented as [Question ID = 245]

- 1. 20:4 (6,8,11,14) [Option ID = 979]
- 2. 18:4(2,4,6,18) [Option ID = 980]
- 3. 20:4 (5,8,11,14) [Option ID = 977]
- 4. 18:4 (3,4,5,6) [Option ID = 978]

Correct Answer:-

• 20:4 (5,8,11,14) [Option ID = 977]

22) The process used to inactivate enzymes: [Question ID = 277]

- 1. Homogenisation [Option ID = 1106]
- 2. All of the above [Option ID = 1108]
- 3. Blanching [Option ID = 1105]
- 4. Cellar Storage [Option ID = 1107]

Correct Answer:-

• Blanching [Option ID = 1105]

23) The process of glycolysis is regulated by

- i. Hexokinase
- ii. Phosphofructokinase
- iii. Pyruvate kinase
- iv. Aldolase [Question ID = 223]
- 1. Correct options are i, ii and iii [Option ID = 891]
- 2. None of the above [Option ID = 892]
- 3. Correct options are i and ii [Option ID = 889]
- 4. Correct options are ii, iii and iv [Option ID = 890]

Correct Answer:-

• Correct options are i, ii and iii [Option ID = 891]

24) MCT's are added in diet of [Question ID = 302]

- 1. Obesity [Option ID = 1205]
- 2. Hypertension [Option ID = 1207]
- 3. Malabsorption syndrome [Option ID = 1206]
- 4. Renal diseases [Option ID = 1208]

• Malabsorption syndrome [Option ID = 1206]

25) Ornithine transcarbamoylase reaction of urea cycle occurs in the [Question ID = 242]

- 1. Mitochondrial Matrix [Option ID = 966]
- 2. None of the above [Option ID = 968]
- 3. Nucleus [Option ID = 967]
- 4. Cytosol [Option ID = 965]

Correct Answer:-

• Mitochondrial Matrix [Option ID = 966]

26) Forms of Discussion method include:

- i. Forum
- ii. Buzz session
- iii. Demonstration
- iv. Role play [Question ID = 207]
- 1. i and ii are correct [Option ID = 825]
- 2. i and iii are correct [Option ID = 827]
- 3. ii and iii are correct [Option ID = 826]
- 4. i, ii, iii and iv are correct [Option ID = 828]

Correct Answer:-

i and ii are correct [Option ID = 825]

27) A diet rich in saturated fats, can be linked to which of the following? [Question ID = 205]

- 1. kidney failure [Option ID = 817]
- 2. cardiovascular disease [Option ID = 820]
- 3. anorexia [Option ID = 819]
- 4. bulimia [Option ID = 818]

Correct Answer:-

cardiovascular disease [Option ID = 820]

28) Examples of insulin antagonist hormones are

- i. Glucagon
- ii. Epinephrine
- iii. Oestrogen [Question ID = 222]
- 1. Correct options are i, ii and iii [Option ID = 887]
- 2. None of the above [Option ID = 888]
- 3. Correct options are i and ii [Option ID = 885]
- 4. Correct options are ii and iii [Option ID = 886]

Correct Answer:-

Correct options are i and ii [Option ID = 885]

29) Aromatic foods include [Question ID = 269]

- 1. Herbs [Option ID = 1074]
- 2. Spices [Option ID = 1073]
- 3. Seasoning [Option ID = 1075]
- 4. All of the above [Option ID = 1076]

• All of the above [Option ID = 1076]

30) A metal ion or an organic compound that is covalently attached to a protein [Question ID = 215]

- 1. Apoprotein [Option ID = 859]
- 2. Vitamin [Option ID = 860]
- 3. Prosthetic group [Option ID = 858]
- 4. Cofactor [Option ID = 857]

Correct Answer:-

• Prosthetic group [Option ID = 858]

31) The fifth basic taste is called as: [Question ID = 289]

- 1. astringency [Option ID = 1153]
- 2. volatile [Option ID = 1156]
- bitter [Option ID = 1155]
- 4. umami [Option ID = 1154]

Correct Answer:-

• umami [Option ID = 1154]

32) Vitamin D deficiency may lead to

- i. Increase activity of phagocytes
- ii. Increases risk of diarrhoea
- iii. Reduces integrity of epithelium
- iv. Increases the incidence of respiratory tract infection

Which one is incorrect [Question ID = 303]

- 1. i [Option ID = 1211]
- 2. iv [Option ID = 1209]
- 3. ii [Option ID = 1210]
- 4. All [Option ID = 1212]

Correct Answer:-

• All [Option ID = 1212]

33) Conversion of pyruvic acid to acetyl CoA takes place in the [Question ID = 217]

- 1. Ribosomes [Option ID = 867]
- 2. Mitochondria [Option ID = 865]
- 3. Nucleus [Option ID = 868]
- 4. Cytosol [Option ID = 866]

Correct Answer:-

• Mitochondria [Option ID = 865]

34) Peyer's patches are [Question ID = 248]

- 1. Lymphatic tissues present in the stomach [Option ID = 989]
- 2. Lymphoid nodules present in the ileum [Option ID = 990]
- 3. Bleeding ulcers present in the colon [Option ID = 991]
- 4. Bleeding lymph nodes present in the duodenum [Option ID = 992]

• Lymphoid nodules present in the ileum [Option ID = 990]

35) The enzyme responsible for curdling of milk is [Question ID = 283]

- 1. Tannin [Option ID = 1129]
- 2. Lipase [Option ID = 1131]
- 3. Amylase [Option ID = 1132]
- 4. Rennin [Option ID = 1130]

Correct Answer:-

• Rennin [Option ID = 1130]

36) The following does not have phosphorous [Question ID = 255]

- 1. NAD $^{+}$ [Option ID = 1018]
- 2. TPP [Option ID = 1019]
- 3. Riboflavin [Option ID = 1017]
- 4. CoASH [Option ID = 1020]

Correct Answer:-

• Riboflavin [Option ID = 1017]

37) The carbon atom source while producing urea in the urea cycle is [Question ID = 238]

- 1. Aspartic acid [Option ID = 951]
- 2. Glucose [Option ID = 950]
- 3. CO_2 [Option ID = 949]
- 4. Arginine [Option ID = 952]

Correct Answer:-

• CO₂ [Option ID = 949]

38) Spongy bleeding gums is caused by which nutrient deficiency?

[Question ID = 246]

- 1. Iron [Option ID = 981]
- 2. Vitamin C [Option ID = 982]
- 3. Vitamin D [Option ID = 984]
- 4. Vitamin B-12 [Option ID = 983]

Correct Answer:-

• Vitamin C [Option ID = 982]

39) Lard is [Question ID = **294**]

- 1. an animal fat from cow [Option ID = 1173]
- 2. a plant fat from groundnut [Option ID = 1176]
- 3. an animal fat from hogs [Option ID = 1174]
- 4. a plant fat from soyabean [Option ID = 1175]

Correct Answer:-

• an animal fat from hogs [Option ID = 1174]

40) What is the main function of the carnitine shuttle system? [Question ID = 260]

- 1. To transport newly synthesized sphingolipids to the blood [Option ID = 1039]
- 2. To transport fatty acids into the mitochondrion [Option ID = 1040]
- 3. To carry cholesterol from its site of synthesis in the endoplasmic reticulum to the plasma membrane. [Option ID = 1038]
- 4. To aid in the assembly of chylomicrons [Option ID = 1037]

Correct Answer:-

• To transport fatty acids into the mitochondrion [Option ID = 1040]

41) Normal osmolarity of body fluids is: [Question ID = 231]

- 1. 600 mOsm/L [Option ID = 922]
- 2. 300 mOsm/L [Option ID = 921]
- 3. 150 mOsm/L [Option ID = 924]
- 4. 1000 mOsm/L [Option ID = 923]

Correct Answer:-

300 mOsm/L [Option ID = 921]

42) HACCP stands for [Question ID = 270]

- 1. High Analysis Critical Control Pressure [Option ID = 1080]
- 2. High Analysis Critical Control Parameter [Option ID = 1078]
- 3. Hazard Analysis Critical Control Parameter [Option ID = 1079]
- 4. Hazard Analysis Critical Control Point [Option ID = 1077]

Correct Answer:-

• Hazard Analysis Critical Control Point [Option ID = 1077]

43) ISO 14000 is a family of standards related to : [Question ID = 290]

- 1. Marketing management [Option ID = 1159]
- 2. Manufacturing management [Option ID = 1158]
- 3. Environment management [Option ID = 1157]
- 4. All of the above [Option ID = 1160]

Correct Answer:-

• Environment management [Option ID = 1157]

44) If body temperature due to infection rises to 39^{0} C, then the BMR will rise by: [Question ID = 247]

- 1. 28% [Option ID = 987]
- 2. 7% [Option ID = 985]
- 3. 56% [Option ID = 988]
- 4. 14% [Option ID = 986]

Correct Answer:-

• 28% [Option ID = 987]

45) Cardiac beri-beri occurs due to

[Question ID = 232]

- 1. Stunting [Option ID = 928]
- 2. Thiamine deficiency [Option ID = 926]
- 3. Goitre [Option ID = 927]
- 4. Marasmus [Option ID = 925]

• Thiamine deficiency [Option ID = 926]

46) The Vitamin D has an important functions to play: [Question ID = 211]

- 1. In the Bone [Option ID = 842]
- 2. In the Intestine [Option ID = 843]
- 3. In the Kidney [Option ID = 841]
- 4. All of the above [Option ID = 844]

Correct Answer:-

• All of the above [Option ID = 844]

47) Ascorbic acid requirement of lactating mother is

[Question ID = 235]

- 1. 80 mg/day [Option ID = 940]
- 2. 60 mg/day [Option ID = 937]
- 3. 25 mg/day [Option ID = 939]
- 4. 40 mg/day [Option ID = 938]

Correct Answer:-

• 80 mg/day [Option ID = 940]

48) During starvation, the first reserve nutrient to be depleted is [Question ID = 243]

- 1. Glycogen [Option ID = 969]
- 2. Triglycerides [Option ID = 970]
- 3. Cholesterol [Option ID = 972]
- 4. Proteins [Option ID = 971]

Correct Answer:-

Glycogen [Option ID = 969]

49) A natural colour used in food is

[Question ID = 282]

- 1. Annatto [Option ID = 1125]
- Indigo caramine [Option ID = 1127]
- 3. Tartrazine [Option ID = 1126]
- 4. Metanil yellow [Option ID = 1128]

Correct Answer:-

• Annatto [Option ID = 1125]

50) Assertion: Hemoglobin is a protein having quaternary structure Reason: Hemoglobin transports oxygen in blood [Question ID = 220]

- 1. Assertion is correct but reason is incorrect [Option ID = 877]
- 2. Assertion and reason both are correct [Option ID = 878]
- 3. Assertion and reason both are incorrect [Option ID = 880]
- 4. Assertion is incorrect and reason is correct [Option ID = 879]

Assertion is correct but reason is incorrect [Option ID = 877]

51) Assertion: Egg yolk is used for making mayonnaise.

Reason: Egg yolk serves as an emulsifying agent in preparation of mayonnaise. [Question ID = 284]

- 1. Both Assertion and Reason are true [Option ID = 1134]
- 2. Assertion is true but Reason is false [Option ID = 1135]
- 3. Assertion is false but Reason is true [Option ID = 1136]
- 4. Both Assertion and Reason are false [Option ID = 1133]

Correct Answer:-

Both Assertion and Reason are true [Option ID = 1134]

52) Assertion: Proline is an imino acid

Reason: Proline has a secondary amine group [Question ID = 244]

- 1. Assertion is correct but reason is incorrect [Option ID = 973]
- 2. Assertion and reason both are correct [Option ID = 974]
- 3. Assertion and reason both are incorrect [Option ID = 976]
- 4. Assertion is incorrect and reason is correct [Option ID = 975]

Correct Answer:-

Assertion and reason both are correct [Option ID = 974]

53) Assertion: Enzymes are biocatalysts that accelerate rate of reaction Reason: Enzymes lower the activation energy of a reaction [Question ID = 219]

- 1. Assertion and reason both are correct [Option ID = 874]
- 2. Assertion is correct but reason is incorrect [Option ID = 873]
- 3. Assertion and reason both are incorrect [Option ID = 876]
- 4. Assertion is incorrect and reason is correct [Option ID = 875]

Correct Answer:-

Assertion and reason both are correct [Option ID = 874]

54) Assertion: Glycolysis is an energy yielding process

Reason: Glycolysis of one molecule glucose yields 2 molecules of pyruvate, ATP and NADH each [Question ID = 221]

- 1. Assertion and reason both are incorrect [Option ID = 884]
- 2. Assertion is correct but reason is incorrect [Option ID = 881]
- 3. Assertion and reason both are correct [Option ID = 882]
- 4. Assertion is incorrect and reason is correct [Option ID = 883]

Correct Answer:-

Assertion and reason both are correct [Option ID = 882]

55) Upon exposure to light rhodopsin forms [Question ID = 257]

- 1. All trans-retinal [Option ID = 1025]
- 2. Retinol [Option ID = 1027]
- 3. Retinoic acid [Option ID = 1028]
- 4. Cis-retinal [Option ID = 1026]

All trans-retinal [Option ID = 1025]

56) The carbon atom which becomes asymmetric when the straight chain form of monosaccharide changes into ring form is known as [Question ID = 264]

- 1. None of these [Option ID = 1056]
- 2. Neoisomeric carbon atom [Option ID = 1055]
- 3. Epimeric carbon atom [Option ID = 1054]
- 4. Anomeric carbon atom [Option ID = 1053]

Correct Answer:-

Anomeric carbon atom [Option ID = 1053]

57) Dysphagia is a symptom that means [Question ID = 253]

- 1. Loss of appetite [Option ID = 1009]
- 2. Difficulty in swallowing [Option ID = 1012]
- 3. Fatty diarrhoea [Option ID = 1011]
- 4. Excessive leanness [Option ID = 1010]

Correct Answer:-

• Difficulty in swallowing [Option ID = 1012]

58) The function of chalaza in egg white is [Question ID = 267]

- 1. None of the above [Option ID = 1068]
- 2. Fertilization of egg [Option ID = 1067]
- 3. Thinning of albumen [Option ID = 1066]
- 4. Keep yolk in position [Option ID = 1065]

Correct Answer:-

Keep yolk in position [Option ID = 1065]

59) Rigor mortis is

[Question ID = 268]

- 1. Lot of physical activity [Option ID = 1069]
- 2. Cell chemical reaction [Option ID = 1070]
- 3. Stiffening of carcass [Option ID = 1071]
- 4. None of these [Option ID = 1072]

Correct Answer:-

• Stiffening of carcass [Option ID = 1071]

60) Which of the following is NOT the function of vitamin C [Question ID = 212]

- 1. Immune function [Option ID = 847]
- 2. Energy metabolism [Option ID = 846]
- 3. Antioxidant activity [Option ID = 848]

4. Collagen synthesis [Option ID = 845]

Correct Answer:-

• Energy metabolism [Option ID = 846]

61) An amino acid that destabilizes an alpha-helix is [Question ID = 224]

- 1. Proline [Option ID = 893]
- 2. Threonine [Option ID = 896]
- 3. Alanine [Option ID = 894]
- 4. Asparagine [Option ID = 895]

Correct Answer:-

• Proline [Option ID = 893]

62) Vitamin required by transaminases is [Question ID = 239]

- 1. Pyridoxine [Option ID = 953]
- 2. Thiamine [Option ID = 955]
- 3. Ascorbic acid [Option ID = 954]
- 4. Riboflavin [Option ID = 956]

Correct Answer:-

Pyridoxine [Option ID = 953]

63) Assertion: Supplementation of dietary folate is necessary during pregnancy Reason: Neural tube defects in the foetus is caused due to deficiency of folic acid.

[Question ID = 296]

- 1. Assertion correct reason incorrect [Option ID = 1181]
- 2. Assertion incorrect reason correct [Option ID = 1183]
- 3. Assertion and reason both correct [Option ID = 1182]
- 4. Assertion and reason both incorrect [Option ID = 1184]

Correct Answer:-

Assertion and reason both correct [Option ID = 1182]

64) Assertion: Essential fatty acids Linoleic acid and Linolenic acid help in reduction of CVDs Reason: Essential fatty acids are synthesized within the body and are not necessary to be taken in the diet

[Question ID = 297]

- 1. Assertion correct reason incorrect [Option ID = 1185]
- 2. Assertion incorrect reason correct [Option ID = 1187]
- 3. Assertion and reason both correct [Option ID = 1186]
- 4. Assertion and reason both incorrect [Option ID = 1188]

Correct Answer:-

• Assertion correct reason incorrect [Option ID = 1185]

65) The red colour present in tomato is due to: [Question ID = 280]

1. Lycopenes [Option ID = 1117]

- 2. Anthoxanthins [Option ID = 1118]
- 3. Carotenoid [Option ID = 1120]
- 4. Anthocyanins [Option ID = 1119]

• Lycopenes [Option ID = 1117]

66) Zinc is an important micronutrient that helps in the reduction of the severity of the following illness [Question ID = 249]

- 1. Diarrhoea [Option ID = 994]
- 2. All of the above [Option ID = 996]
- 3. Typhoid [Option ID = 995]
- 4. Common cold [Option ID = 993]

Correct Answer:-

• Diarrhoea [Option ID = 994]

67) Match the following:

Enteral feed Special characteristic

- i. Oligomeric formulas a. One kind of nutrient predominates
- ii. Polymeric formulas b. MCTs, n-3PUFA, & beta-carotene are added
- iii. Modular formulas c. Provide nitrogen as whole protein
- iv. Opportunistic feeds d. May provide nitrogen from crystalline amino acids

[Question ID = 298]

- 1. i-b; ii-c; iii-d; iv-a [Option ID = 1189]
- 2. i-d; ii-c; iii-a; iv-b [Option ID = 1191]
- 3. i-d; ii-a; iii- c; iv-b [Option ID = 1192]
- 4. i-b; ii-a; iii-c; iv-d [Option ID = 1190]

Correct Answer:-

• i-d; ii-c; iii-a; iv-b [Option ID = 1191]

68) Calcitriol is [Question ID = 256]

- 1. 25-hydroxy cholecalciferol [Option ID = 1022]
- 2. 1-hydroxy cholecalciferol [Option ID = 1021]
- 3. 1, 25-dihydroxy cholecalciferol [Option ID = 1024]
- 4. 24, 25-dihydroxy cholecalciferol [Option ID = 1023]

Correct Answer:-

• 1, 25-dihydroxy cholecalciferol [Option ID = 1024]

69) A heteropolysaccharide among the following is:

[Question ID = 261]

- 1. Hyaluronic acid [Option ID = 1042]
- 2. Inulin [Option ID = 1044]
- 3. Glycogen [Option ID = 1043]
- 4. Cellulose [Option ID = 1041]

Correct Answer:-

Hyaluronic acid [Option ID = 1042]

70) Propionyl CoA formed oxidation of fatty acids having an odd number of carbon atoms is converted into [Question ID = 259]

- 1. Butyryl CoA [Option ID = 1034]
- 2. D-methylmalonyl CoA [Option ID = 1035]
- 3. Acetyl CoA [Option ID = 1033]
- 4. Acetoacetyl CoA [Option ID = 1036]

Correct Answer:-

• D-methylmalonyl CoA [Option ID = 1035]

71) Starter cultures used for yoghurt manufacture are

[Question ID = 285]

- 1. Streptococcus thermophillus and Leuconostoc mesenteroides [Option ID = 1140]
- 2. Streptococcus thermophillus and Lactococcus lactis [Option ID = 1138]
- 3. Streptococcus thermophillus and Lactobacillus bulgarius [Option ID = 1137]
- 4. Lactococcus lactis and Leuconostoc mesenteroides [Option ID = 1139]

Correct Answer:-

• Streptococcus thermophillus and Lactobacillus bulgarius [Option ID = 1137]

72) Iatrogenic malnutrition is also termed as [Question ID = 300]

- 1. Hospital malnutrition [Option ID = 1200]
- 2. Wasting syndrome [Option ID = 1198]
- PEM [Option ID = 1197]
- 4. Protein energy wasting [Option ID = 1199]

Correct Answer:-

Hospital malnutrition [Option ID = 1200]

73) 1-hydroxylation of 25-hydroxy Vitamin D3 takes place in [Question ID = 254]

- 1. Intestine [Option ID = 1016]
- 2. Kidney [Option ID = 1014]
- 3. Pancreas [Option ID = 1015]
- 4. Liver [Option ID = 1013]

Correct Answer:-

• Kidney [Option ID = 1014]

74) Cereals are deficient in

[Question ID = 288]

- 1. Valine [Option ID = 1152]
- 2. Leucine [Option ID = 1150]
- 3. Lysine [Option ID = 1149]
- 4. Methionine [Option ID = 1151]

Correct Answer:-

• Lysine [Option ID = 1149]

75) What is the requirement of calcium during pregnancy as per ICMR, 2010

[Question ID = 228]

- 1. 1800 mg/day [Option ID = 909]
- 2. 1200 mg/day [Option ID = 910]
- 3. 1500 mg/day [Option ID = 911]
- 4. 1000 mg/day [Option ID = 912]

Correct Answer:-

• 1200 mg/day [Option ID = 910]

76) The following are fundamental elements of food and nutrition security

- i. food availability
- ii. food access
- iii. food pigments
- iv. food utilisation [Question ID = 299]
- 1. i ,iii, ii [Option ID = 1193]
- 2. iii ,iv, i [Option ID = 1196]
- 3. i ,ii, iv [Option ID = 1194]
- 4. ii ,iii, i [Option ID = 1195]

Correct Answer:-

• i ,ii, iv [Option ID = 1194]

77) The following gas is used to speed up the ripening process in fruits [Question ID = 292]

- 1. methane gas [Option ID = 1166]
- 2. Ethylene gas [Option ID = 1165]
- 3. Hydrogen gas [Option ID = 1168]
- 4. carbon dioxide gas [Option ID = 1167]

Correct Answer:-

• Ethylene gas [Option ID = 1165]

78) Which of the followings are problems encountered in pregnancy?

- i. Nausea and vomiting
- ii. Constipation
- iii. Toxaemia
- iv. Fluorosis [Question ID = 206]
- 1. i, ii, iv [Option ID = 823]
- 2. ii, iii, iv [Option ID = 822]
- 3. i, iii, iv [Option ID = 824]
- 4. i, ii, iii [Option ID = 821]

Correct Answer:-

• i, ii, iii [Option ID = 821]

79) Which of the following is one of the principles of fortification [Question ID = 233]

- 1. Supplementation [Option ID = 932]
- 2. Immunization [Option ID = 929]

- 3. Restoration [Option ID = 930]
- 4. Diversification [Option ID = 931]

• Restoration [Option ID = 930]

80) Which of the following statement is correct for Diabetes mellitus [Question ID = 229]

- 1. Diabetes is a disease that can be cured [Option ID = 916]
- 2. Diabetes is an endocrine disorder [Option ID = 915]
- 3. Type 2 is prone to ketosis [Option ID = 914]
- 4. Type 1 is not prone to ketosis [Option ID = 913]

Correct Answer:-

• Diabetes is an endocrine disorder [Option ID = 915]

81) Which of the following statement is not true for antioxidants [Question ID = 250]

- 1. Vitamin A, C and E are examples of natural antioxidants [Option ID = 1000]
- 2. Antioxidants cause oxidation enhancing reactive oxygen species [Option ID = 998]
- 3. Antioxidants are free radicals that causes cell damage [Option ID = 999]
- 4. Antioxidants are found in colored fruits and vegetables [Option ID = 997]

Correct Answer:-

- Antioxidants cause oxidation enhancing reactive oxygen species [Option ID = 998]
- Antioxidants are free radicals that causes cell damage [Option ID = 999]

82) Which of the following statements regarding TCA cycle is true? [Question ID = 262]

- 1. It is amphibolic in nature [Option ID = 1047]
- 2. It occurs in cytosol [Option ID = 1046]
- 3. It contains no intermediate for Gluconeogenesis [Option ID = 1048]
- 4. It is an anaerobic process [Option ID = 1045]

Correct Answer:-

• It is amphibolic in nature [Option ID = 1047]

83) Match the given enzymes to their substrate

Enzyme Substrate

- i. Saliva –α-amylase a) α-dextrin
- ii. Maltase b) Triacylglycerol
- iii. Lingual lipase c) Starch
- iv. Endopeptidase d) Polypeptides

[Question ID = 214]

- 1. i-c, ii-d, iii-a, iv-b [Option ID = 856]
- 2. i-c, ii-a, iii-b, iv-d [Option ID = 855]
- 3. i-a, ii-c, iii-d, iv-b [Option ID = 854]
- 4. i-c, ii-a, iii-d, iv-b [Option ID = 853]

Correct Answer:-

• i-c, ii-a, iii-b, iv-d [Option ID = 855]

84) Match the following vitamins to their coenzymes Vitamins Coenzymes

- i. Vitamin B3(Niacin) a) PLP
- ii. Folic acid b) Methyl cobalamin
- iii. Pyridoxine c) NAD and NADP
- iv. Vitamin B12 d) THFA

[Question ID = 213]

- 1. i-a, ii-c, iii-d, iv-b [Option ID = 850]
- 2. i-c, ii-d, iii-a, iv-b [Option ID = 852]
- 3. i-c, ii-a, iii-d, iv-b [Option ID = 849]
- 4. i-c, ii-a, iii-b, iv-d [Option ID = 851]

Correct Answer:-

• i-c, ii-d, iii-a, iv-b [Option ID = 852]

85) Biomolecules which are amino acids but are not used as building blocks for proteins are

- i. Citrulline
- ii. Ornithine
- iii. Arginine
- iv. Alanine

[Question ID = 241]

- 1. Correct options are i and ii [Option ID = 961]
- 2. None of the above [Option ID = 964]
- 3. Correct options are ii, iii and iv [Option ID = 962]
- 4. Correct options are i, ii and iii [Option ID = 963]

Correct Answer:-

• Correct options are i and ii [Option ID = 961]

86) Mechanical device used for drying food is

[Question ID = 272]

- 1. Extruder [Option ID = 1088]
- 2. Lyophilizer [Option ID = 1086]
- 3. Tray Dryer [Option ID = 1087]
- 4. Evaporator [Option ID = 1085]

Correct Answer:-

• Tray Dryer [Option ID = 1087]

87) Match the correct sources of Vital statistics:

Sources Specifications

- i. Census a. Primarily data are collected through nation-wide household surveys on various socio-economic subjects, Annual Survey of Industries (ASI), etc.
- ii. Population Register b. Provide data on mortality and morbidity for selected specific diseases.
- iii. National sample survey c. To obtain such demographic information as current population size, internal migration, data on vital events etc.
- iv. Disease Register d. This is the only source of primary data at village, town and ward level. It is normally carried out once in ten years.

[Question ID = 209]

- 1. i-d, ii-c, iii-a, iv-b [Option ID = 836]
- 2. i-c, ii-a, iii-d, iv-b [Option ID = 833]

- 3. i-a, ii-d, iii-c, iv-b [Option ID = 834]
- 4. i-d, ii-b, iii-a, iv-c [Option ID = 835]

• i-d, ii-c, iii-a, iv-b [Option ID = 836]

88) Pyruvate formed in glycolysis has three catabolic fates [Question ID = 218]

- 1. All of the above [Option ID = 872]
- 2. Conversion to Ethanol [Option ID = 871]
- 3. Reduction to lactate [Option ID = 870]
- 4. Oxidation to acetyl CoA [Option ID = 869]

Correct Answer:-

• All of the above [Option ID = 872]

89) A multienzyme complex of citric acid cycle is [Question ID = 237]

- 1. Pyruvate dehydrogenase [Option ID = 946]
- 2. Alpha-ketoglutarate dehydrogenase [Option ID = 948]
- 3. Aconitase [Option ID = 947]
- 4. Succinate dehydrogenase [Option ID = 945]

Correct Answer:-

• Alpha-ketoglutarate dehydrogenase [Option ID = 948]

90) Emulsifiers are amphiphilic molecules and have the ability to reduce: [Question ID = 274]

- 1. All of the above [Option ID = 1096]
- 2. Viscosity [Option ID = 1094]
- 3. Surface tension [Option ID = 1093]
- 4. Temperature [Option ID = 1095]

Correct Answer:-

• Surface tension [Option ID = 1093]

91) Pernicious anaemia is caused due to the deficiency of which nutrient?

[Question ID = 304]

- 1. Vitamin C [Option ID = 1213]
- 2. Vitamin B12 [Option ID = 1215]
- 3. Folic acid [Option ID = 1216]
- 4. Iron [Option ID = 1214]

Correct Answer:-

Vitamin B12 [Option ID = 1215]

92) The temperature in deep freezer is [Question ID = 271]

- 1. None [Option ID = 1084]
- 2. 0 °C [Option ID = 1081]
- 3. -18 °C [Option ID = 1083]
- 4. 7 °C [Option ID = 1082]

• -18 °C [Option ID = 1083]

93) Ketosis occurs due to

[Question ID = 295]

- 1. Increased lipolysis [Option ID = 1178]
- 2. Increased proteolysis [Option ID = 1177]
- 3. Decreased proteolysis [Option ID = 1179]
- 4. Decreased lipolysis [Option ID = 1180]

Correct Answer:-

Increased lipolysis [Option ID = 1178]

94) The component of energy expenditure include

[Question ID = 225]

- 1. Dietary induced thermogenesis [Option ID = 898]
- 2. All of the above [Option ID = 900]
- 3. Physical activity [Option ID = 899]
- 4. Basal metabolic rate [Option ID = 897]

Correct Answer:-

• All of the above [Option ID = 900]

95) The bran, the germ and the endosperm are the three parts of

[Question ID = 265]

- 1. Kernel of the cereal grain [Option ID = 1058]
- 2. Fruits [Option ID = 1059]
- 3. Vegetable [Option ID = 1057]
- 4. None of these [Option ID = 1060]

Correct Answer:-

Kernel of the cereal grain [Option ID = 1058]

96) The role of the teaching aids include:

- i. Observation
- ii. Exploration
- iii. Understanding
- iv. Application

[Question ID = 208]

- 1. i, ii, iii [Option ID = 830]
- 2. ii, iii, iv [Option ID = 831]
- 3. i, ii, iv [Option ID = 829]
- 4. All of the above [Option ID = 832]

Correct Answer:-

• All of the above [Option ID = 832]

97) The management of microcytic hypochromic anaemia involves supplementation of

- i. Ferrous sulphate, GLVs and Vitamin C
- ii. Iodine, Vitamin B12 and Vitamin B6
- iii. Folic acid and vitamin B12
- iv. Folic acid, Iodine, Iron and vitamin B12

[Question ID = 251]

- 1. Correct options are i and iii [Option ID = 1003]
- 2. Correct options are ii and iii [Option ID = 1002]
- 3. Correct options are i and iv [Option ID = 1001]
- 4. All of the above [Option ID = 1004]

Correct Answer:-

• Correct options are i and iii [Option ID = 1003]

98) Candling is a method used to assess the quality of: [Question ID = 279]

- 1. Fish [Option ID = 1115]
- 2. Milk [Option ID = 1113]
- 3. Meat [Option ID = 1114]
- 4. Egg [Option ID = 1116]

Correct Answer:-

• Egg [Option ID = 1116]

99) Tissues form lactate from glucose. This process is termed as [Question ID = 263]

- 1. Anaerobic glycolysis [Option ID = 1050]
- 2. Aerobic glycolysis [Option ID = 1049]
- 3. Oxidative phosphorylation [Option ID = 1051]
- 4. Oxidation [Option ID = 1052]

Correct Answer:-

• Anaerobic glycolysis [Option ID = 1050]

100) Diet of the patient is modified according to [Question ID = 230]

- 1. Disease and its severity [Option ID = 917]
- 2. Nutritional status of the patient [Option ID = 918]
- 3. Metabolic changes [Option ID = 919]
- 4. All of the above [Option ID = 920]

Correct Answer:-

All of the above [Option ID = 920]