1. The term metabole means

a) Fix b) No change c) Change d) stable

2. Formation of NADPH from fatty acids & synthesis of ribose for nucleaotide by HMP pathway is

a) Non oxidative pathway b) Oxidative pathway c) Reductive pathway d) None

3. Following is an example of primary metabolite

a) Tannins b) Alkaloids c) Glycosides d) Amino acid

4. Shikimic acid is an intermediate from carbohydrate fro synthesis of

a) C5-C6 unit b) C6-C3 unit c) C4-C7 unit d) C2-C3 unit

5. Precursor for the synthesis of shikimic acid is obtained from which pathway

a) Glycolysis b) Krebs cycle c) HMP d) Both a & c

6. Which of the following is required for conversion of chorismic acid to prephenic acid

a) Aldol condensation b) Dehydration c) Reduction d) Claisen rearrangement

7. Isopentenyl pyrophosphate & Dimethyl allyl pyrophosphate are universal precursor for synthesis of

a) Isoprenoids b) Gycosides c) tannins d) Alkaloids

8. Isoprene unit has formula

a) C_5H_8 b) C_6H_9 C) $C_{10}H_{16}$ d) $C_{15}H_{24}$

9. Monoterpenoids have how many isoprene units

a) 3 b) 2 c) 4 d) 5

10. Sesquiterpenods have how many isoprene units

a) 3 b) 2 c) 4 d) 5

11. Diterpenoids have how many isoprene units

a)3 b) 2 c) 4 d) 5

12. Aceto acetyl Co-A is formed by the combination of how many unit of Acetyl Co-A

a) 1 b) 2 c) 4 d) 3

13. Monoterpene Menthol is produced from

a) Geranyl pyro PO4 b) Farnesyl pyro PO4 d) two Geranyl pyro PO4 d) None

14. Rubber is biosynthesized from

a) 2 Geranyl Geranyl Pyro PO4 b) 2 Geranyl Geranyl Pyro PO4 + Iso pentynyl Pyro PO4

c) 4 Geranyl Geranyl Pyro PO4 d) 2 Geranyl Geranyl Pyro PO4 + Farnesyl Pyro PO4

15. Taxol, a diterpenoid is biosynthesized from

a) 2 Geranyl Geranyl Pyro PO4 b) 2 Geranyl Geranyl Pyro PO4 + Iso pentynyl Pyro PO4

c) 4 Geranyl Geranyl Pyro PO4 d) 2 Geranyl Geranyl Pyro PO4 + Farnesyl Pyro PO4

16. Zinziberene a Sesquiterpene is biosynthesized from

b) 2 Geranyl Geranyl Pyro PO4 b) 2 Geranyl Geranyl Pyro PO4 + Iso pentynyl Pyro PO4

d) 4 Geranyl Geranyl Pyro PO4 d) Geranyl Pyro PO4 + Farnesyl Pyro PO4

17. The basic pathway associated with Amino acid (AA) pathway is

a) Glycolysis and TCA b) HMP and TCA

c) Glycolysis & HMP d) both b & c

18. Precursor for Serine biosynthesis is

a) Oxaloacetate b) Pyruvate

c) 3- phosphoglycerate d) α-Ketoglutarate

19. Precursor for Tryptophan is

a) Ribose-5-phosphate b) α-Ketoglutarate

c) Phosphoenol pyruvate d) Oxaloacetate

20. Imine is an intermediate of

a) Transamination b) reductive amination

c) Oxidative amination d) Dehydrogenation