**18PDM202L – CRITICAL AND CREATIVE THINKING SKILLS**

**LOGICAL REASONING – CODING AND DECODING**

**Directions For Questions 1 to 7:** For each of the following questions, a series is given with one term missing. Check the correct alternative from the given choices to complete the series.

1. 3, 7, 16, 32, 57, ?

a) 39 b) 43 c) 93 d) 63

2. 48, 24, 72, 36, 108, ? , ?

a) 115, 230 b) 216, 54 c) 48, 120 d) 54, 162

3. 2, 6, 30, 210, ?, 30030

a) 2310 b)1890 c) 2520 d) 2730

4. 1,2,3,3,5,5,7,7,9,11,11,13,?,?

a) 13,15 b) 15,13 c) 13,17 d) 17,13

5. 12, 6, 6, 9, 18, 45, ?

a) 90 b) 135 c) 125 d) 180

6. 3, 6, 3, 12, 7, 42, 35, ?

a) 280 b) 210 c) 8 d) 54

7. 64, 52, 29, 85, 89, ?

a) 135 b) 145 c) 167 d) 225

**Directions for questions 8 to 10:** For each of the following questions a series is given in which one number does not fit the series. Identify this “odd” element from the given answer choices :

8. 11, 12, 26, 79, 328

a) 12 b) 26 c) 79 d) 328

9. 4, 6, 12, 30, 66

a) 6 b) 12 c) 30 d) 66

10. 17, 19, 23, 25, 29

a) 19 b) 23 c) 25 d) 29

**Directions For Questions 11 to 16**: For each of the following questions, a series is given with one term missing. Check the correct alternative from the given choices to complete the series.

11. CEH, DGK, EIN, ?

a) FKQ b) FLO c) GKO d) FOK

12. BAT, DCV, FEX, ?

a) HGI b) HGZ c) HIJ d) HGY

13. BIP, ELR, HOT, KRV, ?

a) NUX b) NUY c) MTY d) MTX

14. D, I, P, Y, J, ?

a) P b) V c) W d) Z

15. JF, FM, MA, AM, MJ, ?

a) JM b) JF c) JJ d) JA

16. C4F, E6I, G9L, I13O, ?

a) K17R b) K18R c) L18R d) K18S

**Directions For Questions 17 to 20**: Fill in the missing word/number, from the answer choices.

17. 2L2 : 3T0 :: 2P6 : ?

a) 3X0 b) 2X4 c) 3X4 d) 3Y4

18. CEG : MOQ :: EGI : ?

a) OQS b) SUW c) OQR d) SUZ

19. 4258 : 5685 :: 5348 : ?

a) 5825 b) 6775 c) 6725 d) 6745

20. 23 : 49 : : 33 : ?

a) 99 b) 69 c) 59 d) 89

21. In a certain coded language if “INDIA” is coded as ‘42”, “CEYLON” coded as “80”, what is the code for “JAPAN”?

a) 37 b) 47 c) 42 d) 74

22. If “ARITHMETIC” is coded as “ACEHIIMRTT”, how is “APTITUDE” coded ?

a) AEDPIIUT b) ADEIPTTUV c) ADEIPTTU d) ADEIPUTT

23. If SHIP is written as PEFM, what is the code for BOAT?

a) DQCW b) ERDX c) YLXQ d) ZMYR

24. In a certain code, if SHOOT is written as TGPNU, how should WATER be written?

a) XZUDS b) XBUFS c) VZSDQ d) VBSFQ

25. If “CAT” is coded as “9”, “BOOK” is coded as “15”, “STUDY” is coded as “25”,

“SYMBOL” is coded as “35”, what is the code for “PRACTICE”

a) 49 b) 63 c) 64 d) 81

**Directions for questions 26 to 30:** The Code word for some sentences is given in a particular coding system. Understand the coding system and answer the questions given below:

“airports need security” is coded as “ming bing ding”;

“security is necessary” is coded as “ping ding king” ;

“airports are important” is coded as “wing ring bing” and

“arrangements are necessary” is coded as “ ring king ning”

26. What is the code for “important”

a) ring b) bing c) wing d) king

27. What does the code “king” mean?

a) Airport b) necessary c) important d) arrangement

28. What is the code for “airports security is important”?

a) King bing ming ping b) king wing ding ping

c) bing ding ring ning d) bing ding ping wing

“easy path to win” is written as “ad mi ja no”,

'the path to heaven' is written as 'ku ja ig ad',

'win of the tomorrow' is written as 'be ku zo mi' and

'to tell of night' is written as 'be li ya ja'.

29. What is the code for 'tell'?

a) be b) Ii c) ya d) Cannot be determined

30. Which of the following may represent 'heaven is path'?

a) ig ad no c) ig py ya c) re ad be d) ad re ig