50. Find the HCF of 3/15, 9/8 and 3/4 :

    (a) 3/120

    (b) 1/40

    (c) 3/40

    (d) None of the above

980

H   Roll No. ....

XCS–500/501(A)

B. TECH. (FIFTH SEMESTER)

MID SEMESTER EXAMINATION, 2022

(All Branches)

CAREER SKILLS

Time : 1½ Hours

Maximum Marks : 50

SET–A

Instructions for students :

(i) This paper consists of 50 questions.

(ii) All questions are compulsory.

(iii) Use of calculator is not allowed.

(iv) There is no negative marking for incorrect responses.

(v) Each question carries equal marks.

(vi) It is compulsory to write the set on the OMR.

P. T. O.

Directions (Q. Nos. 1-10) : Identify the error in the given sentences and mark the part containing the error as your option.

1. My mother taught me (a) / that one should respect the religions of others (b) / as much as his own. (c) / No error (d)

2. The new scheme which will be launched (a) / in the next two years (b) / need an additional investment of hundred crores from the investors. (c) / No error (d)

3. Even though Garcia has many friends (a) / who love their Chevrolets and Buicks, (b) / she has always believed that General Motors make lemons. (c) / No error (d)

4. My Bull dog Bruno, together with Bruni the cat (a)/, like to play with money; (b) / the cat swats crumpled bills onto the floor where the dog shreds them to pieces. (c) / No error (d)

5. This is a strange world (a) / where each one pursues their own golden bubble (b) / and laughs at others for doing the same. (c) / No error (d)

6. Even though Johnson and Johnson warn (a) / consumers not to insert Q-tips into their ears, (b) / people refuse to read directions and frequently puncture their eardrums. (c) / No error (d)

7. Just before the race (a) / I asked him (b) / whom he thought was going to win. (c) / No error (d)

8. You, he and I (a) / are (b) / in the wrong. (c) / No error (d)

9. If I was him, (a) / I would not misbehave (b) / like this. (c) / No error (d)

10. The committee were (a) /divided in its opinion (b) / regarding this issue. (c) / No error (d)

Directions (Q. Nos. 11-15) : Write the letter of the answer choice in which the underlined section of the sentence is written incorrectly. (The letter is marked before the part.)

11. Beaming satellite images (a) from Jupiter, a planet (b) notoriously difficult to photograph, (c) was a remarkable feat for a team of scientists, who, for the first (d) time ever, were able to depict parts of the planet's atmosphere that were hitherto unknown.

12. There (a) <u>are</u> many benefits to running because it is both a rigorous (b) <u>form</u> of exercise and a natural (c) <u>stress-reducer</u>; not only (d) <u>do</u> runners experience heart health, but lung functioning increases, too.

13. The spread of the sea turtle to (a) <u>many reaches</u> of the world's oceans (b) <u>do not</u> show (c) <u>much as</u> signal that the sea turtle has become a more robust species as (d) <u>it</u> does the effects of climate change.

14. Although blessed with a strong economy, everyone, (a) <u>including the president and her family</u>, (b) <u>are giving up</u> luxury (c) <u>goods</u>   in order (d) <u>to donate more money</u> to charity.

15. Careful analysis of pictures of the Moon (a) <u>reveal</u> that parts of the Moon's surface (b) <u>are</u> (c) <u>markedly</u> similar to parts of the (d) <u>Earth's</u>.

Choose the correct option to make the sentence grammatically correct :

16. If Maria and Sharon _____ for another 20 minutes, they would have seen the movie.

    (a) would wait

    (b) waited

    (c) had waited

    (d) would have waited

17. If Mark and Peter _____ here, they would play in our Football team.

    (a) had been

    (b) will be

    (c) were

    (d) would have been

18. If he _____ my batch mate, I would invite him to my wedding reception.

    (a) was

    (b) had been

    (c) were

    (d) is

19. If India played harder, it _____ better at the tournament.

    (a) would have been

    (b) were

    (c) would be

    (d) will be

Directions (Q. Nos. 20-25) : Choose the part which, when written in a correct way will make the structure of the given sentence parallel.

20. Drunk drivers are thoughtless and take the lives of other people in their own hands, (a) / risking their own lives, think about only their own pleasure and fun (b) / and never considering the consequence of their action. (c) / No error (d)

21. Police enforcement should be responsible for service in the community (a) / by safeguarding the property of people who live in the community, (b) / in order to protect the innocent from crimes, (c) / and to ensure that all people have their constitutional rights getting respect. (d)

22. When my husband takes another job in California, (a) / I will be staying here in Texas to pack, (b) / let the children finish up their school year, fly out to find a house (while my mom comes here to take care of the kids), (c) / and begin my new life by driving with all the kids in the car to California while the moving van is taking all of our stuff. (d)

23. In order to convey the information correctly to the crowd, (a) / the police officer was speaking loudly, (b) / he told people where they should be standing, (c) / repeating information so they would remember and gesturing. (d)

24. My roommate and I, this afternoon are going to be eating lunch at my downtown favorite, a pizza place, (a) / then until our friend Sandy is out of work we will study in the library, meeting up at the dorm with our sorority sisters from tri-Delta is our plan, (b) / and then all of us will be eating the gourmet popcorn my mom just sent me (c) / and we are planning to binge-watch the latest Netflix episodes of our favorite show. (d)

25. Raoult's motivation to succeed (a) / in this program seems (b) / to be greater than his sister (c) / No error (d).

26. A teacher had certain number of chocolates which he wants to distribute among his students. If he divides it among 3 students, there are 2 chocolates that would remain. But if he divides it among his 5 students, there would

be no chocolate left. How many possible values are there for the number of chocolates if it is known that those were between 10 and 98 ?

(a) 5

(b) 6

(c) 7

(d) 9

27. The sum of a 2 digit number and the number obtained by reversing the digits is a multiple of 88. If the difference of the digits at the ten's place and that at the unit's place is 2, find the digit at the ten's place of the number :

(a) 5

(b) 2

(c) 1

(d) 9

28. What is the total number of factors of 300 ?

(a) 12

(b) 16

(c) 18

(d) 20

29. A number when divided by 15, gives a remainder of 11. Find the remainder when twice the number is divided by 3 :

(a) 0

(b) 1

(c) 2

(d) cannot be determined

30. How many pairs of numbers exist such that HCF is 8 and LCM is 480 ?

(a) 1

(b) 2

(c) 3

(d) 4

31. How many numbers exist from 1 to 200 such that the remainder when divided by either 5 or 7 is 4 ?

(a) 5

(b) 7

(c) 4

(d) 6

32. The LCM of two numbers is 45 times their HCF. If one of the numbers is 125 and the sum of HCF and LCM is 1150, find the other number :

    (a) 215

    (b) 220

    (c) 225

    (d) 235

33. What is the value of A if 27A63 is divisible by 3 but not by 9 ?

    (a) 0 or 9

    (b) 3 or 9

    (c) 3 or 6

    (d) 0 or 6

34. What is the largest 3 digit number which gives remainder 3 when it is divided by 5, 7 and 10 ?

    (a) 983

    (b) 977

    (c) 993

    (d) 999

35. What is the last digit of $(28)^{72} \times (353)^{25}$?

    (a) 6

    (b) 3

    (c) 8

    (d) 2

36. What is the total number of even factors of 840 ?

    (a) 24

    (b) 15

    (c) 18

    (d) 20

37. Find the sum of the digits of the largest 3 digit number which will give remainders of 3 and 5 when divided by 5 and 7 respectively :

    (a) 24

    (b) 18

    (c) 20

    (d) 22

38. Find the largest number which will divide 93, 41 and 67 to give the same remainder 2 in each case :

    (a) 7

    (b) 13

    (c) 17

    (d) 19

39. What is the value of the number which when diminished by 5 is completely divisible by 15, 18, 21 and 24 ?

    (a) 2525

    (b) 2520

    (c) 1715

    (d) None of the above

40. ABCD is a 4 digit number which gives a remainder of 5 when divided by 6. Find the remainder when ABCD is divided by 3 :

    (a) 0

    (b) 1

    (c) 2

    (d) Cannot be determined

41. The difference of a 2-digit number and the number formed by interchanging its digits is 54. If the sum of the digits is 8, find the remainder when the number is divided by 7 :

    (a) 1

    (b) 3

    (c) 5

    (d) 0

42. What is the value of Y if 39Y41Z is divisible by 88 ?

    (a) 2

    (b) 4

    (c) 6

    (d) 8

43. What is the largest scale that can be used to measure 2.1 m, 1.5 m and 2.4 m ?

    (a) 70 cm

    (b) 60 cm

    (c) 50 cm

    (d) 30 cm

44. What is the LCM of 3/9, 10/16 and 22/77 ?

 (a) 7

 (b) 11

 (c) 9

 (d) 10

45. What is the remainder if $98 \times 102 \times 99 \times 103 \times 101$ is divided by 100 ?

 (a) 88

 (b) 12

 (c) 24

 (d) 44

46. N is the smallest number greater than 600 which gives a remainder of 5 when divided by both 6 and 9. Find the remainder when N is divided by 5 :

 (a) 2

 (b) 0

 (c) 5

 (d) None of the above

47. If 853ab is divisible by 6, and both a and b are greater than 6, what is the value of a + b ?

 (a) 14

 (b) 15

 (c) 16

 (d) 17

48. The five-digit number 7500A8 is divisible by 4, how many values of A are possible ?

 (a) 0

 (b) 3

 (c) 5

 (d) 4

49. Find the digit at unit's place of the number $\left(47^{278} * 38^{900}\right) - 62^{177}$:

 (a) 4

 (b) 6

 (c) 0

 (d) 2