ALIGARH MUSLIM UNIVERSITY

ALIGARH COACHING CENTRE

MBA (HOSPITAL ADMINISTRATION)

Faculty	Management Studies and Research
Department	Business Administration
Center	

Paper Code	Date of Test	Paper Series
20FMSR/MHA	10·11·20	B

PARTICULARS TO BE FILLED IN BY THE CANDIDATE

Name of the Candidate			
Roll Number	C	Center Code	
Signature of the Candidate			

For Invigilators:

The candidate has completed all the entries in the relevant columns of the OMR and Answer Booklet and his/her identity has been verified.

Name of the invigilator

Signature with date

Time (Test duration): 02 hours

Maximum marks: 100

INSTRUCTIONS

Test duration as specified above shall be reckoned from the moment of distribution of the question booklet.

1. Test booklet consists of 17 pages (excluding this page) and contains 100 MCQs of one mark each. Count the number of pages and questions and their serial numbers before attempting. Discrepancy, if any, must immediately be brought to the notice of the invigilator.

2. The candidate shall handover the admit card, Original OMR Answer Sheet to the invigilator before leaving his/her seat and can take this question booklet.

- Complete all entries on the cover page and put your signature in the space provided.
- Use ONLY Ball Pen (black/ blue) for making entries in the Question booklet and the OMR Answer Sheet.
- Candidate should also read carefully the instructions printed on the Admittance Card (Hall Ticket) and the OMR Sheet before attempting to answer the questions.
- Blank pages provided at the end, as well as spaces in the question booklet, may be used for rough work.
- Each MCQ is followed by 04 alternative answers. Select only one answer, which you consider as the most appropriate. Shade the relevant circle against the corresponding question number in the OMR answer sheet.
- Incorrect answers shall result in negative score of 25% of the marks allotted to the question.
- Answer should only be marked on the OMR Answer Sheet. No answer should be written on the question booklet.
- All questions are compulsory.

1. $\log_{10} \tan 40^\circ . \log_{10} 41^\circ \ldots \log_{10} \tan 50^\circ =$

   (a) 1

   (b) 2

   (c) –1

   (d) None of the above

2. What point on x-axis is equidistant from the point (7, 6) and (-3, 4)?

   (a) (0,3)

   (b) (0,4)

   (c) (3,0)

   (d) (-4,0)

3. The ratio of total surface area to lateral surface area of a cylinder whose radius is 80 cm and height 20 cm, is

   (a) 2 : 1

   (b) 3: 1

   (c) 4 : 1

   (d) 5:1

4. Satish marks his goods 25% above cost price but allows 12.5% discount for cash payment. If he sells the article for Rs.875, find his cost price.

   (a) Rs.775

   (b) Rs.800

   (c) Rs.875

   (d) Rs.850

5. Find a single equivalent increase, if a number is successively increased by 5%, 10% and 15%

   (a) 32.8%

   (b) 31.8%

   (c) 38.2%

   (d) 23.8%

6. How many different signals can be made by using 4 flags at a time from 7 flags of different colours?

   (a) 620

   (b) 840

   (c) 2520

   (d) 210

7. The area of a triangle whose vertices are (0, 0), (1, 2) and (4, 3) is:

   (a) 1

   (b) 2

   (c) 5/2

   (d) None of these

8. The CP of 24 apples is the same as the SP of 18 apples. Find the percentage gain.

(a) 12.5%

(b) $14\frac{2}{7}$%

(c) $16\frac{2}{3}$%

(d) $13\frac{1}{3}$%

9. The tax on an article is increased by 20%. As a result of which the consumption decreases by 25%. What is the % change in the tax revenue received by the government from this article?

(a) 10% decrease

(b) 15% increase

(c) 10% increase

(d) None of these

10. A sum invested under compound interest doubles itself in 10 years. In how many years will it become 8 times of the initial amount?

(a) 15 years

(b) 20 years

(c) 25 years

(d) 30 years

11. Quarantine was first applied for:

(a) HIV/AIDS

(b) Tuberculosis

(c) Leprosy

(d) Plague

12. Black death is:

(a) Plague

(b) Dengue

(c) Tuberculosis

(d) Cholera

13. PQLI stands for:

(a) Physical quality of life index

(b) Physical quantity of life index

(c) Physiological quality of life index

(d) Psychological quality of life index

14. National tuberculosis institute is situated at:

(a) Bombay

(b) Calcutta

(c) Bangalore

(d) Delhi

15. Dengue fever is transmitted by:

(a) Cluexfatigans

(b) Cluexvishnuii

(c) Aedes aegypti

(d) Glossina palpalis

16. On the Mode of Communication of Cholera' in 1849 was written by:

(a) William Farr

(b) John Snow

(c) Edwin Chadwick

(d) Pettenkofer.

17. The most common mode of HIV transmission in India is:

(a) Blood transfusion

(b) Mother to child transmission

(c) Sexual transmission

(d) Use of unsterile syringes and needles

18. All of the following are blood-borne infections except:

(a) Hepatitis B

(b) Hepatitis C

(c) Hepatitis G

(d) Hepatitis E

19. Which is not a zoonotic disease?

(a) Tetanus

(b) Rabies

(c) Brucellosis

(d) Hydatid disease

20. Census is conducted in every _____ years in India:

(a) 25

(b) 15

(c) 10

(d) 20

21. In India maximum maternal mortality is due to:

    (a) Haemorrhage   (b) Anaemia

    (c) Abortion   (d) Sepsis

22. Under 1971, Medical Termination of Pregnancy (MTP) act, Medical Termination of Pregnancy is allowed up to:

    (a) 12 weeks   (b) 16 weeks

    (c) 20 weeks   (d) 24 weeks

23. For dietary measures, Indian reference man is considered to have a weight of:

    (a) 55 kg   (b) 60 kg

    (c) 65 kg   (d) 70 kg

24. Richest source of cholesterol is:

    (a) Egg   (b) Hydrogenated oil

    (c) Butter   (d) Cheese

25. Milk is a good source of all vitamins except:

    (a) Vitamin A   (b) Vitamin B

    (c) Vitamin C   (d) Vitamin D

26. Most undesirable metal in drinking water is:

    (a) Iron   (b) Copper

    (c) Zinc   (d) Lead

27. Waste water from kitchen is called:

    (a) Refuse   (b) Garbage

    (c) Sullage   (d) Sewage

28. Best way to dispose e-waste is:

    (a) Burning   (b) Incineration

    (c) In a landfill   (d) Recycling

29. Which country recorded the highest mortality in Spanish Flu Epidemic of 1918?

    (a) France   (b) Spain

    (c) India   (d) China

30. Which country has recorded the highest mortality in Covid-19 deaths?

    (a) USA   (b) France

    (c) Italy   (d) China

Instruction: The given below capitalised word is followed by four options. One of them is closest in meaning to the capitalised word. Choose the correct option.

31. EFFULGENT

    (a) Luminous   (b) Easy-going

    (c) Obscure   (d) Shining brilliantly

Instruction: The given below capitalised word is followed by four options. One of them is the same meaning as that of the capitalised word. Choose the correct option

32. DERIGUEUR

    (a) Necessary   (b) Fashionable

    (c) Compulsory   (d) Required

33. The antonym of OBSCURE is

    (a) Decent   (b) Affluent

    (c) Famous   (d) Respectable

34. The antonym of PLAUSIBLE is

    (a) Incoherent   (b) Unconvincing

    (c) Undesirable   (d) Impertinent

35. The synonym of TRANSPARENT is
    (a) Verbose
    (b) Involved
    (c) Lucid
    (d) Witty

36. The synonym of ABORTIVE is
    (a) Overt
    (b) Violent
    (c) Secret
    (d) Unsuccessful

37. The synonym of EQUANIMITY is
    (a) presence of mind
    (b) Self-confidence
    (c) Sense of humour
    (d) Calmness of mind

38. Give one word for: "A statute imposed upon a defeated party by the victor"
    (a) Diktat
    (b) Adage
    (c) Idolization
    (d) Apotheosis

39. Give one word for: "The general public"
    (a) Populace
    (b) Population
    (c) People
    (d) Populous

40. The man has been standing there -------- six o'clock.
    (a) Since
    (b) for
    (c) From
    (d) Till

41. Fill in the blank with appropriate preposition: He is proficient ------mathematics
    (a) With
    (b) By
    (c) In
    (d) On

42. Choose the correct alternative: Keep one's word
    (a) be armed with sword
    (b) to insist upon one's view point
    (c) keep one's promise
    (d) To conceal something

43. Choose the correct alternative: Wild goose chase
    (a) have an adventure
    (b) happy hunting
    (c) hopeless search
    (d) bird watching

Instruction for Q. 94 and 95: Choose the correct substitute of the underlined part of the sentence

44. They felt humiliated because they realised that they had cheated:
    (a) had been cheating
    (b) had been cheated
    (c) have been cheated
    (d) No correction required

45. I advise you to call at the doctor for consultation:
    (a) Call in
    (b) Call to
    (c) Call upon
    (d) No improvement

Directions for Q.46 to 50.
1. Read the given passage to find out the subject matter
2. Read the questions that follow the written passage
3. Mark the response that appears to be the most appropriate

Man is a rational animal, so at least I have been told. Throughout my long life, I have looked diligently for evidence in favour of this statement, but so far I have not had the good fortune to come across it. On the contrary, I have seen the world plunging continually further into madness. I have seen great nations, formerly leaders of civilization, led astray by teachers of bombastic nonsense. All this is depressing, but gloom to a useless emotion. Erasmus was probably right when he asserted that folly is perennial and yet the human race has survived. Aristotle was the first to acclaim explicitly that man is a rational animal. His unimpressive reason for this view was that some people can do sums

46. The author has seen great nations led stray by:

    (a) religious leaders   (b) misguided ideology

    (c) men of relentless ambition   (d) preachers of bombastic nonsense

47. All this is very:

    (a) Enlightening   (b) Exhilarating

    (c) Encouraging   (d) Depressing

48. But gloom is a:

    (a) helpful emotion   (b) useless emotion

    (c) praiseworthy emotion   (d) encouraging emotion

49. The author finds as Erasmus found:

    (a) that life is a misadventure   (b) that folly is perennial

    (c) that folly is rare   (d) that life is endearing

50. That man is a rational animal was first observed by:

    (a) Socrates   (b) Homer

    (c) Euripides   (d) Aristotle

51. One morning after sunrise, Ritu and Kavita were talking to each other face to face. If Kavita's shadow was exactly to the right of Ritu, which direction Kavita was facing?

    (a) East   (b) North

    (c) South   (d) West

52. If 'FRIEND' is coded as 'HUMJTK', how 'CANDLE' is written in that code?

    (a) EDRIRL   (b) DCQHQK

    (c) ESJFME   (d) FYOBOC

53. Pointing to a gentleman, Mohit said, "His only brother is the father of my daughter's father". How is the gentleman related to Mohit?

    (a) Father   (b) Uncle

    (c) Grandfather   (d) None of these

54. What are the next two terms in the series?

6, 20, 8, 14, 10, 8, 12, ... , ...

    (a) 14, 10   (b) 2, 18

    (c) 4, 12   (d) 2, 14

55. One day Hilda left home and cycled 10KM southwards, turned right and cycled 5KM and turned right and cycled 10KM and turned left and cycled 10KM. How many kilometers she will have to cycle to reach his home straight?

    (a) 05KM   (b) 10KM

    (c) 15KM   (d) 20KM
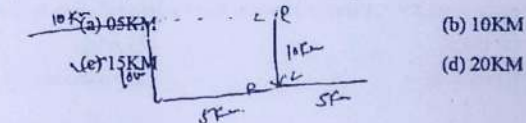
56. How many words with or without meaning can be formed by using all the letters of the word 'LINES', using each letter exactly once?

    (a) 10   (b) 25

    (c) 60   (d) 120

57. In an election a candidate who gets 84% of the votes is elected by a majority of 476 votes. What is the total number of votes polled?

    (a) 672   (b) 700

    (c) 749   (d) 848

58. A courtyard 25 m long and 16 m broad is to be paved with bricks of dimensions 20 cm by 10 cm. The total number of bricks required is:

(a) 18000

(b) 20000

(c) 25000

(d) 30000

59. In a coded message, SLOW MOVE, GET BACKWARDS, FIRE AWAY is written as VFMD ZMWE, BEN PCTLI COXU, QHOE CDCI. Based on this coding scheme, the code for the word 'SALTY' is:
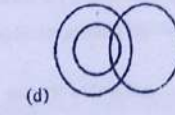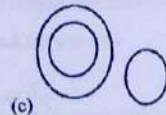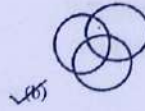
(a) UCFNI

(b) UCFIN

(c) UCINF

(d) UCHIN

60. Butter : Milk :: Oil:?

(a) Grains

(b) Seeds

(c) Curd

(d) Buffalo

61. Which of the following diagrams most appropriately show the relationship given below:

Men, Authors, Teachers

(a)

(b)

(c)

(d)
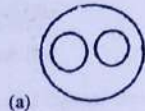
62. If football is called cricket; cricket is called basketball; basketball is called badminton; badminton is called volleyball; volleyball is called hockey and hockey is called billiards, then which game is played without using a ball?

(a) hockey

(b) volley ball

(c) billiards

(d) basket ball

63. Choose the correct alternative

Traveller: Journey:: Sailor:?

(a) Ship

(b) Sea

(c) Crew

(d) Voyage

64. Find the odd one out:

(a) webcam

(b) speaker

(c) digital camera

(d) smart phone

65. Choose one word which can be formed from the letters of the word "SOMNAMBULISM".

(a) Biome

(b) Blas

(c) Soul

(d) Names

The following table shows the number of boys and girls of different schools that have participated in a scholarship test over five years.

Schools	A				B		C		D	
Year	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls		
2001	450	50	750	65	510	50	450	70		
2002	370	70	305	85	475	65	520	60		
2003	510	50	475	70	250	70	440	60		
2004	475	75		445	510		625		120	

66. How many girls more participated in year 2004 as compared to 2003 for all schools taken together?

(a) 110

(b) 370

(c) 480

(d) 210

67. The ratio of boys: girls for school B over the years 2001-2004 is:

    (a) 17:34   (b) 37:10

    (c) 14:37   (d) 34:17

68. The percentage increase in participation of boys from school B in 2004 over those in 2001 is nearly:

    (a) 28%   (b) 72%

    (c) 71%   (d) 30%

69. The total number of participants in year 2003 is:

    (a) 2000   (b) 1640

    (c) 1830   (d) 1720

70. In year 2004 the number of participating girls is in what ratio of the number of participating boys?

    (a) 17:56   (b) 56:17

    (c) 16:57   (d) 57:16

71. As per International Monetary Fund (IMF)-World Economic Outlook (WEO) released on October 13, 2020, India's GDP is expected to shrink by more than ____?

    (a) -5%   (b) -10%

    (c) -15%   (d) -20%

72. Which among the following is the most valuable technology company in the world, as per Forbe's 2020 list of 100 most valuable brands?

    (a) Google   (b) Amazon

    (c) Apple   (d) Facebook

73. According to World Economic Forum's Global Gender Gap Report 2020, India has been ranked _____ in gender equality

    (a) 108th   (b) 110th

    (c) 112th   (d) 115th

74. NPA is an acronym for

    (a) Non Plan Assessment   (b) National Performance Asset

    (c) New Performance Asset   (d) Non-Performing Asset

75. The winner of the Grand Slam US Open Tennis championship in the Women's singles category, held recently in September 2020 is_____?

    (a) Maria Sharapova   (b) Victoria Azaranka

    (c) Naomi Osaka   (d) Jennifer Capriati

76. International Day of Yoga is observed on _____.

    (a) May 21   (b) June 21

    (c) July 21   (d) August 21

77. Which among the following has been the first woman to head a public sector bank in India?

    (a) Chanda Kochhar   (b) Arundhati Bhattacharya

    (c) Shikha Sharma   (d) None of the above

78. Who among the following is the richest man in the world as per Forbe's list of Wealthiest People in the World 2020?

    (a) Bill Gates   (b) Warren Buffet

    (c) Jeff Bezo   (d) Larry Ellison

79. ....announced in 2018 by the Government of India is touted as the world's largest health protection schemes and is said to provide health insurance cover to more than 10 crore poor and vulnerable families.

(a) Ayushman Bharat Yojna

(b) Indradhanush Yojna

(c) Nirmal Bharat Yojna

(d) None of the Above

80. Bancassurance is the selling of insurance products through

(a) Banks

(b) Agent

(c) Online

(d) Offline

81. Which of the following was the first telecom operator in the world to commercially launch 4G

(a) Vodafone

(b) TeliSonera

(c) Airtel

(d) A&T

82. The moto of which of the following organizations is "Space technology in the service of human kind

(a) NASA

(b) Roscosmos

(c) ISRO

(d) ESA

83. Who crated fictional character 'Dr. Zivago'

(a) Charles Dickens

(b) George Orwell

(c) Boris Paternak

(d) Shakespeare

84. The Nobel Prize winners of 2020 in Economics, Paul Milogram and Robert Wilson teach at

(a) Harvard University

(b) University of Chicago

(c) Stanford University

(d) MIT

85. The concept of digital currency (Bitcoin) was proposed by

(a) Paul Krugman

(b) Mark Zuckerberg

(c) Bill Gates

(d) Satoshi Nakamoto

86. One of the most widely used programming language in artificial intelligence programme is

(a) SPSS

(b) Python

(c) SAS

(d) Eviews

87. The dance that acquired its name from the Sanskrit word 'story' is

(a) Kathak

(b) Kuchupidi

(c) Bharatanatyam

(d) Sattriya

88. The only country in the world that features an AK 47 on its flag and currency is

(a) Mozambique

(b) South Africa

(c) Zanzibar

(d) Ghana

89. Which of the following country has the inscription of Lord Ganesha on its currency note

(a) Fiji

(b) Surinam

(c) Mauritius

(d) Indonesia

90. The quote "Every man has his price" is attributed to

a) Winston Churchill

b) Napoleon

b) Sir Robert Walpole

d) Bernard Russel

91. Deepa is seven years older than Shikha. Fifteen years ago Shikha's age was three quarter of Deepa's age. Find age of Deepa

(a) 36

(b) 43

(c) 41

(d) 35

92. A and B together can do a piece of work in 30 days. A having worked for 16 days, B finishes the remaining work alone in 44 days. In how many days shall B finish the whole work alone?

(a) 30 days

(b) 60 days

(c) 40 days

(d) 70 days

93. What is the total surface area of a right circular cylinder in sqcm if its base diameter is 14 cm and height is 12cms?

(a) 528

(b) 308

(c) 836

(d) 1144

94. A 5 cm cube is cut into as many 1 cm cubes as possible. What is the ratio of the surface area of the larger cube to that of the sum of the surface areas of the smaller cubes?

(a) 1:6

(b) 1:5

(c) 1:25

(d)1:125

95. Find the number of arrangements of the letters of the word 'ALGEBRA' without altering the relative position of the vowels and the consonants.

(a) 80

(b) 48

(c) 64

(d) 72

96. The diameters of two concentric circles are 8 cm and 10 cm. The area of the region between them is

(a) 9π cm^2

(b) 3π cm^2

(c) 6π cm^2

(d) 9π cm^2

97. If the radius of a circle is reduced by 40%, its circumference is reduced by

(a) 60%

(b) 40%

(c) 35%

(d) 45%

98. In how many ways can 7 persons be seated around a circular table such that two particular persons are next to each other?

(a) 240

(b) 180

(c) 160

(d) 120

99. Sheetal is three times as old as Ram. Three years hence she will be twice as old as Ram. What is Sheetal's present age?

(a) 16

(b) 18

(c) 14

(d) 12

100. If the equations $4x+7y=10$ and $10x+ky=25$ are coincident lines, then the values of k is

(a) 5

(b) 17/2

(c) 27/2

(d) 35/2

ALIGARH MUSLIM UNIVERSITY
Admission Test-Answer Sheet

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PLEASE READ THE INSTRUCTIONS PROVIDED ON THE BACK OF THE OMR ANSWER SHEET BEFORE FILLING

ALIGARH COACHING CENTRE

1. NAME OF THE CANDIDATE

2. FOR CANDIDATE ONLY

MBA – HOSPITAL ADMINISTRATION

Signature with date

FOR INVIGILATOR ONLY
CANDIDATE'S ROLL NUMBER

BAR CODE

2059729

6. QUESTION BOOKLET NUMBER

3. ROLL NUMBER

4. APPLICATION NO.

SERIES-B

ROOM NO.

Certified that the entries and bubble have been filled / shaded correctly

Salwa Ahmed.
10/11/2020

Signature with date
(Do not Sign out of this box)

7. CENTRE CODE

8. QUESTION PAPER SERIES

B

5. Gender
(Male/Female/Other)

Male (M)
Female (F)
Other (O)

9. Status
(Internal / External)

Internal (I)
External (E)

ANSWER SECTION