

HCB 2 Answer Key

Maths Section

1 B – The essay states that researchers commonly define microplastics as particles smaller than five millimetres.

2 C – It distinguishes primary (manufactured small) and secondary (from breakdown) microplastics.

3 A – Tyre wear, synthetic textiles, paint flakes, and pellets (“nurdles”) are named as major sources.

4 B – Rivers, storm drains, and windblown dust are identified as transport routes.

5 B – Physical blockage, false fullness, and abrasion are noted potential effects.

6 C – Evidence is emerging and mixed; the essay urges precaution and better data.

7 B – Bans on cosmetic microbeads and stronger producer responsibility are given as policy examples.

8 C – The essay recommends combining quantitative sampling with qualitative, community observations.

9 B – Prevention at source and capture at the end of systems must operate together.

10 B – Everyday driving sheds particles invisibly and in substantial amounts.

11 B – Interventions should be tested; poorly designed schemes might re-suspend particles.

12 B – Admitting uncertainty invites collaboration and sets realistic expectations, building trust.

13 B – Independent replication reduces bias and strengthens confidence in results.

14 B – Substitutes may carry hidden costs (e.g., heavier materials increasing transport emissions).

15 B – Citizen science also builds awareness and community ownership, not just data.

16 B – Waiting for certainty may allow avoidable harm to build up; precaution is reasonable.

17 C – Effluent is treated outflow from a plant.

18 B – Contested means disputed or challenged.

19 B – Sampled is a verb describing the action taken.

20 B – Persistence is a noun naming a continuing state or quality.

21 D – “Anlysis” should be **analysis**.

22 C – “Independant” should be **independent**.

23 C – “Autmn” should be **autumn**.

24 E – No mistake: supplier, guaranteed, efficiently, gales are correct.

25 E – No mistake: commissioning, calibrated, documented, circulated are correct.

26 B – A comma is needed after “pumps” to separate items in a series: “...slowed the pumps, inspected the screens, and cleared the silt.” Thus part B lacks the needed comma.

27 A – List requires commas: “...laboratory counts, field observations and modelling outputs...”.

28 B – Missing comma after the reporting clause: “the chair advised, ‘then publish...’”.

29 B – The parenthetical item needs punctuation: “...identified hotspots, debris traps and likely sources.”

30 B – The interrupting phrase “not perfection” should be bracketed by commas or dashes: “The study suggests progress, not perfection, because...”. Hence B contains the error.

31 B – Consistent fits the need to keep results comparable across tide stages.

32 A – Fibres appear as coarse hairs on filter paper.

33 C – Concern and curiosity can amplify each other.

34 C – Robust baseline is idiomatic for a dependable starting measure.

35 C – Contract fits the idea of a promise to keep paying attention.

Maths

Add the following Decimals

36. 30.83

37. 32.75

38. 150.53

39. 66.81

Subtracting Decimals

40. 21.14

41. 878.57

42. 22.06

43. 2.3

Multiply by 10, 100, 1000

44. 51620.00

45. 30740.00

46. 403.9

47. 4013.00

48. 0.2867

49. 7.778

50. 0.05742

51. 5.028

Multiply by Decimals

52. 23.598

53. 67.8307

Divide Decimals

54. 6412.9

55. 5050.2

2 Decimal Places

56. 9.83

57. 9.32

58. 9.35

Nearest tenth

59. 3.5

60. 7.7

61. A - **Ancient** means very old.

62. A - **Timid** means shy.

63. A - An **arrogant** person is too proud of themselves.

64. A - Walls can **collapse** after storms.

65. A - A **glimpse** is a quick look.

66. B - The opposite of victory is **defeat**.

67. A - **Transparent** means easy to see through.

68. A - **Rapid** means quick.

69. A - To **hesitate** is to pause before acting.

70. A - *Sturdy* means **strong, firmly built, and not easily damaged**.

NVR- SIMILARITIES

71. C

72. B

73. E

74. D

75. B

76. B

77. C

78. A

79. B & D

80. C

81. A & E

82. C

83. B

84. B

85. C

VR- MATCH CODES 1

86. B

87. A

88. D

89. C

90. B

91. D

92. A

93. C

VR- MATCH THE CODES 2

94. B

95. A

96. C

11+ VERBAL REASONING CODES

97.JZ

98. VE

99.UHM

100. IR