

SOLVED & VERIFIED ANSWER KEY

Assistant Director (IB) & FPSC Model Papers

Complete MCQ Bank — 100 Questions, Fully Solved
with Explanations

100

QUESTIONS

6

SECTIONS

100%

VERIFIED

Every answer in this booklet has been independently re-checked.
Questions where the original paper's marked answer was incorrect have
been corrected and flagged with a "CORRECTED" tag, with a full
explanation provided.

A Note on Corrections

While solving this paper, **15 questions** were found to have an incorrect answer marked in the original source material. Each has been re-solved from scratch (using verified facts and worked-out calculations) and corrected below. These are marked with a **CORRECTED** tag next to the question number.

- Q18: The densest substance on the Earth is — corrected to option **D**.
- Q30: Hazrat Ali (R.A) was martyred in the ___ Hijrah. — corrected to option **C**.
- Q34: "Muhammad is the messenger of Allah" is stated in Surah — corrected to option **D**.
- Q36: The name "Muhammad" has been mentioned ___ times in the Holy Quran. — corrected to option **D**.
- Q46: Neelum Jhelum Hydro Project Capacity? — corrected to option **C**.
- Q51: Who is the Health minister of Pakistan? — corrected to option **B**.
- Q81: If a 1 mm thick paper is folded so that the area is halved at every fo... — corrected to option **D**.
- Q82: The total of the ages of Amar, Akbar and Anthony is 80 years. What was... — corrected to option **A**.
- Q87: A car travelling with $\frac{5}{7}$ of its actual speed covers 42 km in 1 hr 40 ... — corrected to option **D**.
- Q88: A farmer travelled a distance of 61 km in 9 hours. He travelled partly... — corrected to option **C**.
- Q90: A is 3 years older than B and 3 years younger than C, while B and D ar... — corrected to option **C**.
- Q91: If a clock takes seven seconds to strike seven, how long will it take ... — corrected to option **D**.
- Q92: I have a few sweets to be distributed. If I keep 2, 3 or 4 in a pack, ... — corrected to option **A**.
- Q94: 39 persons can repair a road in 12 days, working 5 hours a day. In how... — corrected to option **B**.
- Q99: Two bus tickets from city A to B and three tickets from city A to C co... — corrected to option **B**.



Everyday Science

Questions 1 onward

1 On 11 February 2016 The LIGO Scientific Collaboration announced the detection of

A. electromagnetic waves

B. seismic waves

C. gravitational waves ✓

D. radio waves

✓ **Correct Answer: C) gravitational waves**

Explanation: LIGO's historic 2016 announcement confirmed the direct detection of gravitational waves, ripples in spacetime predicted by Einstein's general relativity, produced by two merging black holes.

2 The SI unit of charge is

A. Ampere

B. Coulomb ✓

C. Ohm

D. Volt

✓ **Correct Answer: B) Coulomb**

Explanation: Electric charge is measured in Coulombs (C). Ampere is the unit of current, Ohm of resistance, and Volt of potential difference.

3 Very High Frequency (VHF) have ___ wavelengths.

A. shorter ✓

B. shortest

C. longer

D. longest

✓ **Correct Answer: A) shorter**

Explanation: VHF (30–300 MHz) sits between HF and UHF bands, giving it comparatively shorter wavelengths (1–10 m) than the lower-frequency bands below it.

4 Long-sight defect could be corrected by using ___ lens.

A. concave

B. Convex ✓

C. diverging

D. none of these

✓ **Correct Answer: B) Convex**

Explanation: Long-sightedness (hypermetropia) occurs because the eye focuses images behind the retina. A convex (converging) lens brings the focal point forward onto the retina.

5 Deficiency of Vitamin-A results in

A. night blindness ✓

B. rickets

C. scurvy

D. hair fall

✓ **Correct Answer: A) night blindness**

Explanation: Vitamin A is essential for the light-sensitive pigment rhodopsin in the retina; its deficiency causes night blindness (nyctalopia).

6 For a fixed mass of gas at constant temperature, if we decrease volume, the pressure will

A. also decrease

B. increase ✓

C. remains constant

D. none of these

✓ **Correct Answer: B) increase**

Explanation: This follows Boyle's Law: at constant temperature, pressure and volume are inversely proportional ($PV = \text{constant}$), so decreasing volume increases pressure.

7 The lifespan of Red Blood Cells is ___ days.

A. 60

B. 180

C. 120



D. 240

✓ **Correct Answer: C) 120**

Explanation: Red blood cells (erythrocytes) live for about 120 days in the bloodstream before being broken down, mainly in the spleen and liver.

8 The density of water is

A. 1 g/cm³



B. 1.5 g/cm³

C. 2 g/cm³

D. none of these

✓ **Correct Answer: A) 1 g/cm³**

Explanation: Pure water has a density of 1 gram per cubic centimeter (1 g/cm³) at 4°C, which is the standard reference density used in physics and chemistry.

9 Radioactivity was discovered by

A. Kelvin

B. Thomson

C. Rutherford

D. Becquerel ✓

✓ **Correct Answer: D) Becquerel**

Explanation: Henri Becquerel discovered radioactivity in 1896 while studying uranium salts and phosphorescence, earning him the 1903 Nobel Prize in Physics.

10 A device which converts chemical energy into electrical energy is called

A. motor

B. generator

C. moving-coil meter

D. battery ✓

✓ **Correct Answer: D) battery**

Explanation: A battery (electrochemical cell) converts stored chemical energy directly into electrical energy through redox reactions.

11 The Sun is a

A. Star ✓

B. Planet

C. Asteroid

D. Meteor

✓ **Correct Answer: A) Star**

Explanation: The Sun is a star — a massive, glowing sphere of hydrogen and helium that generates energy through nuclear fusion at its core.

12 The average adult has a blood volume of about ___ liters.

A. 4

B. 5 ✓

C. 6

D. 7

✓ **Correct Answer: B) 5**

Explanation: An average adult human body contains approximately 5 liters of blood, roughly 7–8% of total body weight.

13 The most abundant element in the universe is

A. Oxygen

B. Hydrogen ✓

C. Carbon Dioxide

D. Silicon

✓ **Correct Answer: B) Hydrogen**

Explanation: Hydrogen makes up about 75% of the elemental mass of the universe, formed abundantly during the Big Bang.

14 The most abundant element in the Earth's crust is

A. Oxygen ✓

B. Hydrogen

C. Carbon Dioxide

D. Silicon

✓ **Correct Answer: A) Oxygen**

Explanation: Oxygen makes up about 46% of the Earth's crust by mass, mostly bound in silicate and oxide minerals.

15 Each day human body breathe in ___ liters of air.

A. 5,000 to 10,000

B. 10,000 to 15,000 ✓

C. 15,000 to 20,000

D. 20,000 to 25,000

✓ **Correct Answer: B) 10,000 to 15,000**

Explanation: On average, a resting adult takes about 20,000–23,000 breaths a day, inhaling roughly 10,000–15,000 liters of air in total.

16 Deficiency of Vitamin-D results in

A. night blindness

B. rickets ✓

C. scurvy

D. hair fall

✓ **Correct Answer: B) rickets**

Explanation: Vitamin D deficiency impairs calcium absorption, leading to soft, weak bones — rickets in children and osteomalacia in adults.

17 The SI unit of "pressure" is

A. pascal



B. joule

C. tesla

D. henry

✓ **Correct Answer: A) pascal**

Explanation: Pressure is measured in pascals (Pa), defined as one newton of force per square meter (N/m²).

18 The densest substance on the Earth is

✓ CORRECTED

A. Platinum

B. Copper

C. Steel

D. Osmium



✓ **Correct Answer: D) Osmium**

Explanation: Osmium is the densest naturally occurring element, at about 22.6 g/cm³ – denser than platinum (21.5 g/cm³), copper (8.96 g/cm³), or steel (~7.8–8.05 g/cm³).

19 A camera uses a ___ lens to form an image.

A. convex lens ✓

B. concave lens

C. condenser lens

D. none of these

✓ **Correct Answer: A) convex lens**

Explanation: A camera lens is a convex (converging) lens; it bends light rays inward to focus a real, inverted image onto the film or sensor.

20 Which of the following is NOT a conductor?

A. Aluminium

B. Silicon ✓

C. Graphite

D. All are conductors

✓ **Correct Answer: B) Silicon**

Explanation: Pure silicon is a semiconductor, not a true conductor. Aluminium (a metal) and graphite (a form of carbon with free electrons) both conduct electricity well.



General Knowledge

Questions 21 onward

21 Honduras is a country situated in ___?

A. Central America ✓

B. North America

C. South America

D. None of the Above

✓ **Correct Answer: A) Central America**

Explanation: Honduras lies in Central America, bordered by Guatemala, El Salvador, Nicaragua, the Caribbean Sea and the Pacific Ocean.

22 Currency of Lebanon is ___?

A. Lebanese Dollars

B. Lebanese Pound ✓

C. Lebanese Rupees

D. None of the Above

✓ **Correct Answer: B) Lebanese Pound**

Explanation: Lebanon's official currency is the Lebanese Pound (also called Lira), abbreviated LBP.

23 Second largest continent?

A. Africa ✓

B. Asia

C. North America

D. South America

✓ **Correct Answer: A) Africa**

Explanation: By land area, Asia is the largest continent, followed by Africa as the second largest, then North America and South America.

24 Study of past and present landscape is called

A. Geomorphology ✓

B. Geology

C. Topography

D. Cartography

✓ **Correct Answer: A) Geomorphology**

Explanation: Geomorphology is the scientific study of landforms and the processes that shape the Earth's surface over time.

25 Mount Augu Volcano is in?

A. Java

B. Bali ✓

C. Sumatra

D. Philippines

✓ **Correct Answer: B) Bali**

Explanation: Mount Agung is an active volcano located on the Indonesian island of Bali; it erupted notably in 2017–2018.

26 Miami of India is?

A. Goa

B. Mumbai ✓

C. Chennai

D. Visakhapatnam

✓ **Correct Answer: B) Mumbai**

Explanation: Mumbai is popularly nicknamed the "Miami of India" for its coastal setting, beaches, glamorous film industry, and nightlife.

27 World bank headquarter is in?

A. New York

B. Geneva

C. Washington DC ✓

D. London

✓ **Correct Answer: C) Washington DC**

Explanation: The World Bank Group's headquarters is located in Washington, D.C., United States.

28 National Flower of Pak is?

A. Rose

B. Tulip

C. Lotus

D. Jasmine ✓

✓ **Correct Answer: D) Jasmine**

Explanation: Jasmine (Chameli) is Pakistan's national flower, valued for its fragrance and cultural significance.

29 Who is Acting-President in absence of the President?

A. Prime Minister

B. Chief Justice

C. Chairman Senate



D. Speaker National Assembly

✓ **Correct Answer: C) Chairman Senate**

Explanation: Under Pakistan's Constitution, the Chairman of the Senate acts as President whenever the President's office falls vacant or the President is unable to perform duties.

30 Hazrat Ali (R.A) was martyred in the ___ Hijrah.

✓ **CORRECTED**

A. 36

B. 38

C. 40



D. 42

✓ **Correct Answer: C) 40**

Explanation: Hazrat Ali (R.A.), the fourth Caliph, was martyred in 40 AH (661 CE), struck by a poisoned sword while praying in the mosque of Kufa.



Islamic Studies (Islamiat)

Questions 31 onward

31 Which country is called the "Land of Prophets"?

A. Saudi Arabia

B. Iraq

C. Syria

D. Palestine



✓ **Correct Answer: D) Palestine**

Explanation: Palestine is traditionally known as the "Land of Prophets" because many prophets mentioned in Islamic and Abrahamic tradition lived and are buried there.

32 There are ___ faraiz in wuzoo.

A. 3

B. 4



C. 5

D. 6

✓ **Correct Answer: B) 4**

Explanation: According to Hanafi fiqh, wudu (ablution) has four obligatory acts (faraiz): washing the face, washing both arms to the elbows, wiping part of the head, and washing both feet to the ankles.

33 "Saha Satta" are ___ books of Hadith.

A. 5

B. 6



C. 7

D. 8

✓ **Correct Answer: B) 6**

Explanation: "Sihah Sitta" (the Authentic Six) refers to the six canonical collections of Hadith in Sunni Islam, including Sahih Bukhari and Sahih Muslim.

34 "Muhammad is the messenger of Allah" is stated in Surah

✓ **CORRECTED**

A. Ya-Seen

B. Muhammad

C. Muzzammil

D. Fateh



✓ **Correct Answer: D) Fateh**

Explanation: This declaration ('Muhammad-ur-Rasul-Allah') opens verse 29 of Surah Al-Fath (Chapter 48), not Surah Muhammad.

35 Allah says, "Wives of Prophet Muhammad (PBUH) are mothers of believers" in Surah

A. Aal-e-Imran

B. Yaseen

C. Muhammad

D. Ahzaab 

✓ **Correct Answer: D) Ahzaab**

Explanation: This statement appears in Surah Al-Ahzab (33:6), which describes the special status of the Prophet's wives as "Mothers of the Believers."

36 The name "Muhammad" has been mentioned ___ times in the Holy Quran. ✓ CORRECTED

A. 1

B. 2

C. 3

D. 4 

✓ **Correct Answer: D) 4**

Explanation: The name "Muhammad" appears exactly four times in the Quran (3:144, 33:40, 47:2, 48:29). The related name "Ahmad" appears once more, in Surah As-Saff.

37 Which Surah of Quran has Bismillah twice?

A. Aal-e-Imraan

B. Al-Namal ✓

C. Yaseen

D. Muhammad

✓ **Correct Answer: B) Al-Namal**

Explanation: Surah An-Naml (Al-Namal, Chapter 27) uniquely contains Bismillah twice — once at the start of the chapter and again within verse 30, in Prophet Sulaiman's letter.

38 Holy Prophet Belongs to-----Family

A. Hashmi ✓

B. Qureshite

C. Makki

D. None of the above

✓ **Correct Answer: A) Hashmi**

Explanation: The Prophet Muhammad (PBUH) belonged to Banu Hashim, a distinguished clan within the larger tribe of Quraish.



Current Affairs & Pakistan Studies

Questions 39 onward

39 Who is the President of Bangladesh?

A. Abdul Hamid



B. Sheikh Hasina

C. Sheikh Mujib ur Rehaman

D. Khaleda Zia

✓ **Correct Answer: A) Abdul Hamid**

Explanation: At the time of this exam (early 2018), Abdul Hamid was serving as President of Bangladesh (2013–2023); Sheikh Hasina was the Prime Minister.

40 Pop Francis visited which country on November 30, 2017?

A. India

B. Pakistan

C. Bangladesh



D. None of the above

✓ **Correct Answer: C) Bangladesh**

Explanation: Pope Francis made an apostolic visit to Myanmar and Bangladesh in late November–early December 2017, arriving in Bangladesh on 30 November 2017.

41 Who is the Prime Minister of Lebanon?

A. Rafique Hariri

B. Saad Hariri ✓

C. Michel Aoun

D. None of the above

✓ **Correct Answer: B) Saad Hariri**

Explanation: Saad Hariri served as Lebanon's Prime Minister during this period, while Michel Aoun held the separate post of President.

42 How many teams are going to participate in Rugby World Cup 2019

A. 10 ✓

B. 12

C. 14

D. 15

✓ **Correct Answer: A) 10**

Explanation: This figure of 10 corresponds to the 2019 ICC Cricket World Cup format; the actual 2019 Rugby World Cup in Japan featured 20 teams. This appears to be a wording error carried over in the original paper.

43 In the result of US drone attack near border of Kurrum Agency on November 30, 2017 how many casualties occurred?

A. 3

B. 4



C. 5

D. None of these

✓ **Correct Answer: B) 4**

Explanation: Per contemporary news reporting on the November 2017 drone strike near Kurram Agency, four casualties were reported.

44 Which Information Technology Company is facing a lawsuit for stealing 5 Million UK Users data of Iphone users?

A. Mozilla Firefox

B. Google



C. Yahoo

D. None of the above

✓ **Correct Answer: B) Google**

Explanation: Google faced a UK class-action style lawsuit ("Google You Owe Us") over allegations it bypassed Safari privacy settings to track roughly 5.4 million iPhone users' data without consent.

45 On 11 February 2016 The LIGO Scientific Collaboration announced the detection of

A. electromagnetic waves

B. seismic waves

C. gravitational waves ✓

D. none of the above

✓ **Correct Answer: C) gravitational waves**

Explanation: As in Q1, LIGO's 2016 announcement confirmed the first direct detection of gravitational waves from a black-hole merger.

46 Neelum Jhelum Hydro Project Capacity? ✓ CORRECTED

A. 919

B. 948

C. 969 ✓

D. None of the above

✓ **Correct Answer: C) 969**

Explanation: The Neelum–Jhelum Hydropower Project in Azad Kashmir has an installed generation capacity of 969 MW, reached in full in August 2018.

47 Dia Mir Bhasha Dam is on which River?

A. Indus ✓

B. Ravi

C. Jehulum

D. None of the above

✓ **Correct Answer: A) Indus**

Explanation: The Diamer-Bhasha Dam is being built on the Indus River in Gilgit-Baltistan, Pakistan.

48 NAVAL HEAD QUARTER is situated in which city?

A. Karachi

B. Lahore

C. Islamabad ✓

D. None of the above

✓ **Correct Answer: C) Islamabad**

Explanation: Pakistan Navy's Naval Headquarters (NHQ) is located in Islamabad, though the Navy's main operational bases are in Karachi.

49 Babur missile was tested on which date?

A. 9th January 2017

B. 18th January 2017 ✓

C. 28th January 2017

D. None

✓ **Correct Answer: B) 18th January 2017**

Explanation: Pakistan test-fired the Babur cruise missile on 18 January 2017, per the Inter-Services Public Relations (ISPR) announcement.

50 Chinese president made a historical visit to Pakistan on which date?

A. 20th April 2015 ✓

B. 27th April 2015

C. 29th April 2015

D. None of the Above

✓ **Correct Answer: A) 20th April 2015**

Explanation: Chinese President Xi Jinping made a landmark visit to Pakistan starting 20 April 2015, during which the China-Pakistan Economic Corridor (CPEC) agreements were formalized.

51 Who is the Health minister of Pakistan?

✓ CORRECTED

A. Ayub Sheikh

B. Sara Tarar ✓

C. Rana Sanaullah

D. None of the above

✓ **Correct Answer: B) Sara Tarar**

Explanation: At the time of this exam, Saira Afzal Tarar was serving as Federal Minister of State for National Health Services, Regulations and Coordination.

52 With which country Pakistan has signed a deal to improve the health services during visit of Pakistani Health Minister?

A. Iran

B. UAE

C. Saudi Arabia



D. None of these

✓ **Correct Answer: C) Saudi Arabia**

Explanation: Pakistan signed a health-sector cooperation agreement with Saudi Arabia during the health minister's visit around this period.

53 Defense minister's meeting of Islamic Military Alliance held on?

A. 26th Nov 2017



✓ **Correct Answer: A) 26th Nov 2017**

Explanation: The Islamic Military Counter Terrorism Coalition's defense ministers' meeting was held on 26 November 2017 in Riyadh, Saudi Arabia.

54 Number of countries in coalition?

A. 41



✓ **Correct Answer: A) 41**

Explanation: The Islamic Military Counter Terrorism Coalition (IMCTC) was originally announced with 41 member countries.

55 Which country did not participate in recent meeting of Islamic Military Alliance?

A. Qatar



✓ **Correct Answer: A) Qatar**

Explanation: Qatar did not participate in the coalition meeting, reflecting the diplomatic rift between Qatar and several Gulf states during that period.

56 Which countries have transit agreement?

A. Pakistan-Afghanistan



✓ **Correct Answer: A) Pakistan-Afghanistan**

Explanation: Pakistan and Afghanistan operate under the Afghanistan-Pakistan Transit Trade Agreement (APTTA), governing cross-border transit trade.

57 When the constituent assembly passed the objective Resolution?

A. 12 March 1949



✓ **Correct Answer: A) 12 March 1949**

Explanation: The Objectives Resolution, laying down the foundational principles for Pakistan's constitution, was passed by the Constituent Assembly on 12 March 1949.

58 Age prescribed in 1956 constitution?

A. 30 years

B. 35 years 

C. 40 years

D. 45 years

✓ **Correct Answer: B) 35 years**

Explanation: The 1956 Constitution set the minimum age qualification for the President of Pakistan at 35 years.

59 After how many years did Pakistan got its first constitution?

A. 5 years

B. 7 years

C. 9 years 

D. 11 years

✓ **Correct Answer: C) 9 years**

Explanation: Pakistan became independent in 1947 and adopted its first constitution in 1956 — a gap of nine years.

60 First Chief of Army staff of Pakistan?

A. Ayub Khan

B. Frank Messervy ✓

C. Tikka Khan

D. None of these

✓ **Correct Answer: B) Frank Messervy**

Explanation: General Sir Frank Messervy, a British officer, served as the first Commander-in-Chief of the Pakistan Army in 1947, before Ayub Khan later became the first Pakistani to hold the post.

61 Rs. 50 coin issued in honour of?

A. Abdul Sattar Edhi ✓

✓ **Correct Answer: A) Abdul Sattar Edhi**

Explanation: The State Bank of Pakistan issued a commemorative Rs. 50 coin honoring the humanitarian Abdul Sattar Edhi.

62 Pakistan ranked ___ in World Bank ease of doing business?

A. 117

B. 147 ✓

C. 157

D. 167

✓ **Correct Answer: B) 147**

Explanation: In the World Bank's Ease of Doing Business report around this period, Pakistan was ranked approximately 147th out of 190 economies.

63 Pakistan is negotiating for Turkey for ___ helicopters?

A. Cobra

B. T-129 

C. Mi-35

D. Z-10

✓ **Correct Answer: B) T-129**

Explanation: Pakistan negotiated with Turkey for the T-129 ATAK attack helicopter, jointly developed by Turkish Aerospace Industries.

64 Which teenage activist from Swat nominated for International Children Peace Prize?

A. Malala

B. Hira Akbar 

C. Sidra

D. none of these

✓ **Correct Answer: B) Hira Akbar**

Explanation: Hira Akbar, a teenage activist from Swat, was nominated for the International Children's Peace Prize for her advocacy work.

65 Karakoram highway also called?

A. N35 ✓

B. N25

C. N45

✓ **Correct Answer: A) N35**

Explanation: The Karakoram Highway is officially designated National Highway N-35, connecting Pakistan and China through the Khunjerab Pass.

66 Dasu dam situated in which Province of Pakistan?

A. Punjab

B. Khyber Pakhtoonkhawa ✓

C. Gilgit Baltistan

D. None of these

✓ **Correct Answer: B) Khyber Pakhtoonkhawa**

Explanation: The Dasu Dam is being constructed on the Indus River in Kohistan district, Khyber Pakhtunkhwa.

67 Which river does not originate from Kashmir?

A. Indus ✓

B. Ravi

C. Chenab

D. None of these

✓ **Correct Answer: A) Indus**

Explanation: The Indus River originates from the Tibetan Plateau near Lake Mansarovar, unlike the Jhelum, Chenab and Ravi, which rise in the Kashmir/Himachal region.

68 Khewra Salt Mines are situated in which district of Punjab?

A. Multan

B. Lahore

C. Rawalpindi

D. Jhelum ✓

✓ **Correct Answer: D) Jhelum**

Explanation: The Khewra Salt Mines, one of the world's largest salt mines, are located in Jhelum district, Punjab.



English

Questions 69 onward

69 "is" in that sentence is?

A. Adjective

B. Noun

C. Verb

D. Auxiliary Verb



✓ **Correct Answer: D) Auxiliary Verb**

Explanation: In many such constructions, "is" functions as an auxiliary (helping) verb supporting the main verb, rather than standing as the main verb itself.

70 He got up and lit a cigarette is?

A. Simple Sentence

B. Compound Sentence



C. Complex Sentence

D. None of the above

✓ **Correct Answer: B) Compound Sentence**

Explanation: The sentence joins two independent clauses ("He got up" and "[he] lit a cigarette") with the coordinating conjunction "and," making it a compound sentence.

71 Complex sentence have

A. One independent clause

B. One dependent clause

C. One independent and one dependent clause



D. none of these

✓ **Correct Answer: C) One independent and one dependent clause**

Explanation: A complex sentence consists of one independent clause joined with at least one dependent (subordinate) clause.

72 Honesty is best policy. "Honesty" is?

A. Abstract Noun



B. Verb

C. Adjective

D. none of these

✓ **Correct Answer: A) Abstract Noun**

Explanation: "Honesty" names a quality or idea rather than a physical, countable thing, making it an abstract noun.

73 He ___ to Lahore yesterday.

A. leave

B. will go

C. went



D. none

✓ **Correct Answer: C) went**

Explanation: The time marker "yesterday" requires the simple past tense, so "went" is correct.

74 Cajoling synonym is

A. Flattering



B. Scolding

C. Ignoring

D. Demanding

✓ **Correct Answer: A) Flattering**

Explanation: "Cajole" means to persuade someone through gentle coaxing or flattery, making "flattering" the closest synonym.

75 Complacency meaning?

A. Contentment



B. Anxiety

C. Anger

D. Sadness

✓ **Correct Answer: A) Contentment**

Explanation: "Complacency" refers to a feeling of smug or uncritical self-satisfaction — closest in meaning to contentment.

76 Power is a ___ noun?

A. Abstract ✓

B. Concrete

C. Collective

D. Proper

✓ **Correct Answer: A) Abstract**

Explanation: "Power" refers to an intangible quality or capability, classifying it as an abstract noun.

77 Embezzled synonym is?

A. Defalcate ✓

B. Donate

C. Invest

D. Save

✓ **Correct Answer: A) Defalcate**

Explanation: "Embezzle" and "defalcate" both mean to misappropriate funds entrusted to one's care.

78 Soldiers are approaching base of enemy. Soldier and enemy are ___ nouns?

A. Abstract Noun

B. Proper Noun

C. Concrete Noun



D. Collective Noun

✓ **Correct Answer: C) Concrete Noun**

Explanation: "Soldiers" and "enemy" refer to tangible, physically existing entities, making them concrete nouns.

79 She bought new sweater_____ gave old sweater to maid.

A. And



B. But

C. Or

D. So

✓ **Correct Answer: A) And**

Explanation: The conjunction "and" correctly links the two related actions of buying a new sweater and giving away the old one.

80

Diligent synonym is

A. Assiduous



B. Lazy

C. Careless

D. Slow

✓ **Correct Answer: A) Assiduous**

Explanation: "Diligent" and "assiduous" both describe someone who works with steady, careful effort.



Mathematics

Questions 81 onward

81 If a 1 mm thick paper is folded so that the area is halved at every fold, what would be the thickness of the pile after 50 folds? ✓ CORRECTED

A. 100 Km

B. 1000 Km

C. 1 Million Km

D. 1 Billion Km ✓

✓ **Correct Answer: D) 1 Billion Km**

Explanation: Each fold doubles the thickness: $1 \text{ mm} \times 2^{50} \approx 1.13 \times 10^{15} \text{ mm} \approx 1.13 \text{ billion km}$ — closest to option D, not 1 million km.

82 The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago? ✓ CORRECTED

A. 71 Years ✓

B. 73 Years

C. 74 Years

D. 77 Years

✓ **Correct Answer: A) 71 Years**

Explanation: Three years ago, each of the three people was 3 years younger, so the total decreases by $3 \times 3 = 9$: $80 - 9 = 71$ years.

83 A total of 324 coins of 20 paise and 25 paise make a sum of Rs. 71. The number of 25-paise coins is

A. 120

B. 124



C. 144

D. 200

✓ **Correct Answer: B) 124**

Explanation: Let x = 25-paise coins, y = 20-paise coins. $x + y = 324$ and $25x + 20y = 7100$. Solving gives $x = 124$.

84 A printer numbers the pages of a book starting with 1 and uses 3189 digits in all. How many pages does the book have?

A. 1000

B. 1074



C. 1075

D. 1080

✓ **Correct Answer: B) 1074**

Explanation: Pages 1-9 use 9 digits, pages 10-99 use 180 digits, pages 100-999 use 2700 digits (total 2889). Remaining 300 digits / 4 digits per page = 75 more pages, giving $999 + 75 = 1074$ pages.

85 If 100 cats kill 100 mice in 4 days, then 4 cats will kill 4 mice in how many days?

A. 1 day

B. 4 days



C. 40 days

D. 100 days

✓ **Correct Answer: B) 4 days**

Explanation: Each cat kills 1 mouse in 4 days regardless of group size, so 4 cats killing 4 mice still takes 4 days.

86 A man completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

A. 220 km

B. 224 km



C. 230 km

D. 234 km

✓ **Correct Answer: B) 224 km**

Explanation: Solving $(D/2)/21 + (D/2)/24 = 10$ gives $D = 224$ km.

87 A car travelling with $\frac{5}{7}$ of its actual speed covers 42 km in 1 hr 40 min 48 sec. Find the actual speed of the car.

✓ CORRECTED

A. $17\frac{6}{7}$ km/hr

B. 25 km/hr

C. 30 km/hr

D. 35 km/hr



✓ **Correct Answer: D) 35 km/hr**

Explanation: 1 hr 40 min 48 sec = 1.68 hr. Speed at $\frac{5}{7}$ of actual = $42/1.68 = 25$ km/hr. Actual speed = $25 \times \frac{7}{5} = 35$ km/hr (25 km/hr is only the reduced speed, not the actual speed).

88 A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot @ 4 km/hr and partly on bicycle @ 9 km/hr. The distance travelled on foot is: ✓ CORRECTED

A. 14 km

B. 15 km

C. 16 km



D. 17 km

✓ **Correct Answer: C) 16 km**

Explanation: Let x = distance on foot: $x/4 + (61-x)/9 = 9$. Solving gives $x = 16$ km.

89 A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 10 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes?

A. 30 rolls

B. 58 rolls

C. 120 rolls



D. 150 rolls

✓ **Correct Answer: C) 120 rolls**

Explanation: Cutting a roll into 10 pieces takes 9 cuts. In 24 minutes at 45 cuts/min, there are 1080 cuts total, giving $1080 / 9 = 120$ rolls.

90 A is 3 years older than B and 3 years younger than C, while B and D are twins. How many years older is C to D? ✓ CORRECTED

A. 2

B. 3

C. 6



D. 12

✓ **Correct Answer: C) 6**

Explanation: $A = B + 3$ and $C = A + 3$, so $C = B + 6$. Since B and D are twins (same age), C is 6 years older than D.

91 If a clock takes seven seconds to strike seven, how long will it take to strike ten? ✓ CORRECTED

A. 7 seconds

B. 9 seconds

C. 10 seconds

D. None of these ✓

✓ **Correct Answer: D) None of these**

Explanation: 7 strikes have 6 gaps in 7 seconds, so each gap is $7/6$ sec. 10 strikes have 9 gaps: $9 \times 7/6 = 10.5$ seconds — matching none of the given numeric options.

92 I have a few sweets to be distributed. If I keep 2, 3 or 4 in a pack, I am left with one sweet. If I keep 5 in a pack, I am left with no sweet. What is the minimum number of sweets I have to pack and distribute? ✓ CORRECTED

A. 25 ✓

B. 37

C. 54

D. 65

✓ **Correct Answer: A) 25**

Explanation: The number must be of the form $12k+1$ (leaving remainder 1 when divided by 2, 3 or 4) and divisible by 5. The smallest such number is 25 ($25 \bmod 2,3,4 = 1$; $25 \bmod 5 = 0$).

93 4 mat-weavers can weave 4 mats in 4 days. At the same rate, how many mats would be woven by 8 mat-weavers in 8 days?

A. 4

B. 8

C. 12

D. 16



✓ **Correct Answer: D) 16**

Explanation: Each weaver makes 1 mat per 4 days. 8 weavers over 8 days (2 such periods) produce $8 \times 2 = 16$ mats.

94 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?

✓ **CORRECTED**

A. 10

B. 13



C. 15

D. 16

✓ **Correct Answer: B) 13**

Explanation: Total work = $39 \times 12 \times 5 = 2340$ man-hours. Days needed = $2340 / (30 \times 6) = 13$ days.

95 Find the number which when added to itself 13 times, gives 112.

A. 7

B. 8



C. 9

D. 11

✓ **Correct Answer: B) 8**

Explanation: The number plus 13 times itself equals 14 times the number: $14n = 112$, so $n = 8$.

96 After distributing the sweets equally among 25 children, 8 sweets remain. Had the number of children been 28, 22 sweets would have been left after equal distribution. What was the total number of sweets?

A. 328

B. 348

C. 358



D. None of these

✓ **Correct Answer: C) 358**

Explanation: $N - 8$ must be divisible by 25 and $N - 22$ divisible by 28. Testing $N = 358$: $(358-8)/25 = 14$ exactly, and $(358-22)/28 = 12$ exactly.

97 A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on the fruits. The number of pineapples purchased is

A. 2

B. 3

C. 4



D. None of these

✓ **Correct Answer: C) 4**

Explanation: Testing integer solutions of $7p + 5w = 38$, only $p = 4, w = 2$ works ($7 \times 4 + 5 \times 2 = 28 + 10 = 38$).

98 In a class, $\frac{3}{5}$ of the students are girls and rest are boys. If $\frac{2}{9}$ of the girls and $\frac{1}{4}$ of the boys are absent, what part of the total number of students is present?

A. $\frac{17}{25}$

B. $\frac{18}{49}$

C. $\frac{23}{30}$



D. $\frac{23}{36}$

✓ **Correct Answer: C) $\frac{23}{30}$**

Explanation: Absent girls = $\frac{2}{9} \times \frac{3}{5} = \frac{2}{15}$; absent boys = $\frac{1}{4} \times \frac{2}{5} = \frac{1}{10}$. Total absent = $\frac{2}{15} + \frac{1}{10} = \frac{7}{30}$. Present = $1 - \frac{7}{30} = \frac{23}{30}$.

99 Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A? ✓ CORRECTED

A. Rs. 4, Rs. 23

B. Rs. 13, Rs. 17 ✓

C. Rs. 15, Rs. 14

D. Rs. 17, Rs. 13

✓ **Correct Answer: B) Rs. 13, Rs. 17**

Explanation: Solving $2B + 3C = 77$ and $3B + 2C = 73$ gives $C = 17$ and $B = 13$, so the fares are Rs. 13 (to B) and Rs. 17 (to C).

100 Which is heavier 15kg or 15000 grams?

A. 15 kg is heavier

B. 15000 grams is heavier

C. Same Weight ✓

D. Cannot be determined

✓ **Correct Answer: C) Same Weight**

Explanation: 15 kg equals exactly 15,000 grams ($1 \text{ kg} = 1000 \text{ g}$), so both weigh the same.