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ESE 2020 : Prelims Exam
CLASSROOM TEST SERIES

GENERAL STUDIES
& **ENGG. APTITUDE**

Test 15

Section A: Current Issues of National and International Importance relating to Social, Economic and Industrial Development

Section B : Standards and Quality Practices in Production, Construction, Maintenance & Services

Section C : Information and Communication Technologies (ICT)

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|---------|---------|---------|---------|---------|
| 1. (d) | 11. (b) | 21. (b) | 31. (a) | 41. (b) |
| 2. (c) | 12. (d) | 22. (b) | 32. (a) | 42. (a) |
| 3. (c) | 13. (d) | 23. (c) | 33. (c) | 43. (b) |
| 4. (c) | 14. (c) | 24. (b) | 34. (d) | 44. (a) |
| 5. (d) | 15. (c) | 25. (d) | 35. (c) | 45. (b) |
| 6. (c) | 16. (c) | 26. (a) | 36. (a) | 46. (b) |
| 7. (c) | 17. (d) | 27. (b) | 37. (c) | 47. (b) |
| 8. (b) | 18. (c) | 28. (b) | 38. (d) | 48. (a) |
| 9. (a) | 19. (a) | 29. (b) | 39. (c) | 49. (c) |
| 10. (a) | 20. (a) | 30. (d) | 40. (a) | 50. (b) |

DETAILED EXPLANATIONS

1. (d)
 - The Code on Wages, 2019 seeks to universalise the provisions of minimum wages and timely payment of wages to all employees irrespective of the sector and wage ceiling.
 - The Code has subsumed four labour laws, namely Minimum Wages Act, Payment of Wages Act, Payment of Bonus Act and Equal Remuneration Act. After the enactment of the Code, all the four Acts stand repealed.
 - There were 12 definitions of wages in various labour laws, leading to difficulty in its implementation. Under the Code, the definition has been simplified and is expected to reduce litigation and also reduce compliance cost for employers.
 - The minimum wages will be revised and reviewed by the Central or State Governments at an interval of not more than five years. While fixing minimum wages, the Central or State Governments may take into account factors such as skill of workers and difficulty of work.

2. (c)

The Phillips curve shows the relationship between unemployment and inflation in an economy. Both have a stable and inverse relationship. It is an essential tool to analyse macro-economic policy.

3. (c)
 - Regional Comprehensive Economic Partnership (RCEP) is a proposed free trade agreement between the ten member states of the Association of Southeast Asian Nations (ASEAN) and their five Free Trade Agreement (FTA) partners (Australia, China, Japan, New Zealand, and South Korea). India, ASEAN's sixth FTA partner, recently opted out of the agreement.
 - RCEP aims to cover the trade in goods and services, as well as investment, intellectual property and dispute resolution.
 - As per recent report, India's trade deficit with RCEP countries has almost doubled in the last five years- from \$54 billion in 2013-14 to \$105 billion in 2018-19.

4. (c)

The Reserve Bank of India gives temporary loan facilities to the Centre and State Governments as a banker to government. This temporary loan facility is called Ways and Means Advances (WMA).

6. (c)
 - Government of India has implemented project 'SPARROW-CBIC' for online writing of annual performance appraisal reports.
 - The term SPARROW stands for Smart Performance Appraisal Report Recording Online Window.
 - This project leverages modern technology for enhancing the overall efficiency and morale of the huge workforce working in Central GST and customs department of CBIC.

7. (c)

As per the recent data released by the Ministry of Commerce and Industry, the output of eight core sectors of the Indian industry - coal, crude oil, natural gas, refinery products, fertiliser, steel, cement and electricity - declined by 5.2% in September, 2019.

9. (a)
- Pradhan Mantri Kisan Maan Dhan Yojana is a voluntary and contributory scheme for small and marginal farmers in entry age group of 18 to 40 years whose cultivable land is 2 hectares or less. Under the scheme, beneficiary farmers are required to make monthly contribution of Rs. 55 to Rs. 200, depending on their age of entry. Beneficiaries will get fixed monthly pension of Rs. 3000 on attaining the age of 60.
 - Life Insurance Corporation of India (LIC) will be Pension Fund Manager and also responsible for pension payout to the farmers.
10. (a)
- The Protection of Human Rights (Amendment) Bill, 2019 amends Protection of Human Rights Act, 1993 that provides for National Human Rights Commission (NHRC), State Human Rights Commissions and Human Rights Courts. As per the Bill, at least one of three members of NHRC should be a woman. Besides a former Chief Justice of India, a former Supreme Court judge can also become NHRC chairperson.
12. (d)
- The Financial Action Task Force (FATF) is an inter-governmental body established in 1989 with objectives to set standards and promote effective implementation of legal, regulatory and operational measures for combating money laundering, terrorist financing and other related threats to the integrity of the international financial system.
 - It was established by the G-7 Summit that was held in Paris in 1989.
 - It has 39 members (37 member jurisdictions and 2 regional organisations). While India is a member of FATF, Pakistan is not a member.
15. (c)
- Harrod-Domar Model:** First Five-Year Plan
P.C. Mahalanobis Model: Second Five-Year Plan
Gadgil Yojana/Model: Third Five-Year Plan
D.P. Dhar Model: Fifth Five-Year Plan
16. (c)
- Kohitur Mango (West Bengal) and Janagere Jackfruit (Karnataka) have not yet received GI tag.
17. (d)
- Vande Mataram, was adopted as the National Song of India on January, 24, 1950.
 - It is taken from Ananadamath, which was composed by Bankim Chandra Chatterjee, originally in Sanskrit and published in 1882. It was sung for the first time at the Congress Session of 1896.
18. (c)
- Amber box:** Nearly all domestic support measures considered to distort production and trade (with some exceptions) fall into the amber box.
- Blue box:** This is the "amber box with conditions", i.e. the conditions designed to reduce distortion. Any support that would normally be in the amber box, is placed in the blue box if the support also requires farmers to limit production.

Green box: In order to qualify, green box subsidies must not distort trade, or at most cause minimal distortion. They have to be government-funded (not by charging consumers higher prices) and must not involve price support.

19. (a)

- Capital to Risk (Weighted) Assets Ratio (CRAR), also known as Capital Adequacy Ratio, is the ratio of a bank's capital to its risk. The RBI tracks a bank's CRAR to ensure that the bank can absorb a reasonable amount of loss and complies with statutory capital requirements.
- In India, commercial banks are required to maintain a CRAR of 9% as per RBI norms.

20. (a)

- Chandrayaan-2 was India's first moon lander and rover mission. It was launched on 22 July 2019 on the operational flight of GSLV Mk-III M1 from SDSC, Sriharikota, Andhra Pradesh. It lost contact with Vikram lander on 7 September 2019 while landing on South Pole of the Moon, and subsequently the Mission declared unsuccessful.
- The Mission accompanied a lander named Vikram and a small robotic rover named Pragyan.

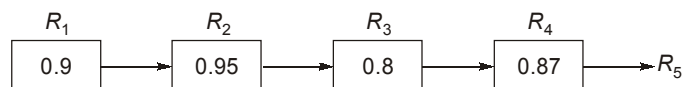
23. (c)

Under the Unlawful Activities (Prevention) Act, 2019, an investigating officer is required to obtain the prior approval of the Director General of Police (DGP) to seize properties that may be connected with the terrorism, whereas for National Investigating Agency (NIA) officers, approval of Director General of NIA is required.

25. (d)

The fixed amount of subsidy is decided by Government under Nutrient Based Subsidy (NBS) on an annual basis and is provided on each grade of subsidized phosphatic and potassium fertilizers, except for urea.

26. (a)



The reliability of the loan process is:

$$R_s = R_1 \times R_2 \times R_3 \times R_4 = 0.9 \times 0.95 \times 0.8 \times 0.87$$

$$R_s = 0.595 \simeq 0.6$$

27. (b)

The main assumption made in the theory of sampling is that samples are drawn at random. Normal distribution is not random distribution.

29. (b)

$$\bar{p} = \frac{\text{Total number of errors}}{\text{Total number of records examined}} = \frac{80}{100 \times 20}$$

$$\bar{p} = 0.04$$

$$\text{Standard deviation, } \sigma_{\bar{p}} = \sqrt{\frac{\bar{p}(1-\bar{p})}{n}} = \sqrt{\frac{0.04(1-0.04)}{100}} = \sqrt{\frac{0.0384}{100}} = 0.0196$$

(Where, n = sample size = 100)

$$\text{UCL} = \bar{p} + z\sigma_p = 0.04 + 3 \times 0.0196 = 0.098 \approx 0.1$$

$$\text{LCL} = \bar{p} - z\sigma_p = 0.04 - 3 \times 0.0196 = -0.0188$$

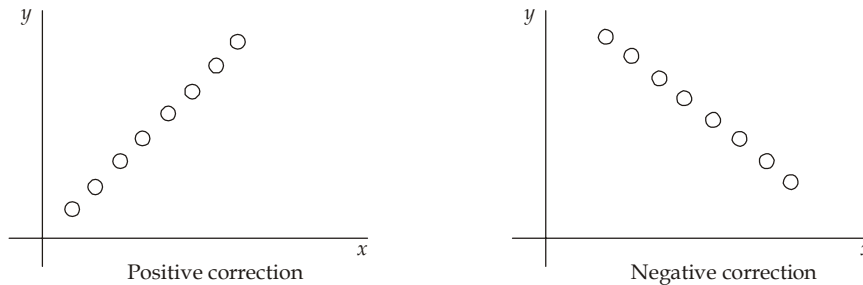
(Cannot be -ve so LCL will be 0)

30. (d)

$$\text{EOQ} = \sqrt{\frac{2 \times D \times C_o}{C_h}} = \sqrt{\frac{2 \times 2000 \times 400}{0.1 \times 100}} = \sqrt{160000}$$

$$\text{EOQ} = 400$$

31. (a)



32. (a)

Taguchi loss function

$$L(x) = k(x - t)^2$$

where,

$$L(x) = \text{Rs. } 125 \text{ and } k = 5$$

$$125 = 5(x - t)^2$$

$$\sqrt{25} = x - t$$

$$5 + 40 = x$$

$$x = 45$$

34. (d)

Quality of a product can be judged by following eight quality criteria:

- Performance
- Aesthetics
- Special features
- Conformance
- Reliability
- Durability
- Perceived quality
- Serviceability

35. (c)
Assurance: This dimension of service quality is related to the competence of the service employee. The employees must be competent to gain the trust of customers.
38. (d)
Variation between the control limits designated by the UCL and LCL lines are considered variation from the common cause system. Any variability beyond these limits is associated with special causes of variation. Any system exhibiting only common cause variation is considered statistically controlled.
41. (b)
Google and several Indian doctors are working together to use AI to detect diabetic retinopathy, a kind of nerve damage in eyes that, if not detected early, can lead to blindness.
43. (b)
The network layer is responsible to provide quality of service that include Latency and Bandwidth.
44. (a)
TEQUIP is launched by Ministry of Human Resource Development (MHRD), and it works in collaboration with states. It aims to upscale and support ongoing efforts in improving quality of technical education and enhancing existing capacities of the institutions.
46. (b)
Samadhan stands for Software Application for Monitoring and Disposal, Handling of Industrial Disputes. The portal aims to help workers and employers raise industrial disputes outline.
47. (b)
ToneTag is a Bengaluru-based financial technology company, which is set to introduce sound-based data transfer technology.
49. (c)
Indian Railways has launched a web portal www.railsahyog.in. It will provide a platform for the Corporates and PSUs to contribute to creation of amenities at/near Railway Stations through Corporate Social Responsibility funds.

